CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, February 1, 1906.

CONTENTS.

CONSTRUCTION NEWS:
Plans and Specifications on File 39
List of Contracts Pending 39
Railways 40
Electric Railways 40
Light and Power Plants 40
Bridges 41
Buildings 41
Water Supply and Irrigation 42
Sewerage 43
Garbage Disposal 43
Streets and Roads 43
Manufacturing Plants 43
Miscellaneous Contracts 44
U. S. Possessions and Cuba 45
READERS' WANTS 44
CIVIL SERVICE EXAMINATIONS 45
INDUSTRIAL NOTES 45
TRADE PUBLICATIONS 45
PROPOSALS 46

CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue.
Feb.				
*1	Canals, etc.	Roswell, N. Mex.	P. & S.	12-28
*1	Power house	West Point, N. Y.	P. S. & B. S.	1- 4
*1	Dam, etc.	Boise, Idaho	P. & S.	1- 4
1	Vessel	Washington, D. C.	P. & S.	1-11
1	Water-works	Palatka, Fla.	S.	1-18
*1	Coagulating basin	Norfolk, Va.	P. & S.	1-18
2	Ditch	Willmar, Minn.	S.	1-18
3	Water system	Ft Fremont, S. C.	S. P. & B. S.	1-11
5	Drain	Iowa City, Ia.	S. & B. S.	1- 4
*6	Portland cement	Belle Fourche, S. Dak.	S. & B. S.	1-11
*6	Portland cement	Montrose, Colo.	S. & B. S.	1-18
*6	Water system	Greeley, Colo.	S. & B. S.	1- 4
6	Disposal plant	Savannah, Ga.	P. & S.	1-18
*7	Bulkheads, etc.	Baltimore, Md.	P. & S.	1-18
*8	Gas plant	Hattiesburg, Miss.	P. & S.	1-25
*8	Steel lock gates	Nashville, Tenn.	S.& B. S.	1-11
10	Fire alarm system	Norfolk, Va.	P. S. & B. S.	1-18
10	Steel caisson	Charleston, S. C.	S.	1-11
10	Pier	Portsmouth, N. H.	S.	1-18
10	Pier	Portsmouth, N. H.	P. S. & B. S.	1-18
10	Reservoir, etc.	Sandy Hook, N.J.	P. & S.	1-18
*14	Bridges	Philadelphia, Pa.	P. S. & B. S.	1-18
*16	Sewers	Mohawk, N. Y.	S. & B. S.	1-25
16	Water sys.	Riverside Park, Va.	S.	1-25
19	Snag boats	Dallas, Tex.	P. & S.	1-18
*19	Water & light plant	Jackson, Mo.	S. & B. S.	1-25
*19	Viaduct	Atlanta, Ga.	P. & S.	1-25
*28	Sluice gates, etc.	L Angeles, Cal.	P. S. & B. S.	1-25
Mar.				
*1	Pumping plant	Harlingen, Tex.	S.	2- 1
*5	Elevator	Grand Rapids, Mich.	Data	1-18
*10	Two snagboats	Vicksburg, Miss.	P. & S.	1-11
Apr.				
*2	Port works	Chile	P. & S.	5- 4
5	Wharves	Manila, P. I.	P. & S.	12-14

*Work advertised in Engineering News.

LIST OF CONTRACTS PENDING.

Bids close.	Work.	Place.	On file.	See issue
	LIGHT, HEAT AND POWER PLANTS.			
Feb. 1	Power house, West Point, N. Y. Advertised, Eng. News, Jan. 4 to 25.		Jan.	4
Feb. 1	Gas regulators, etc., New York, N. Y.		Jan.	25
Feb. 1	Gas, lamps, etc., New York, N. Y.		Jan.	25
Feb. 5	Lighting fixtures, Fort Sheridan, Ill.		Feb.	1
Feb. 6	Electric lighting, Oconto, Wis.		Feb.	1
Feb. 7	Lighting, Greenwich, N. Y.		Jan.	11
Feb. 8	Gas plant, complete, Hattiesburg, Miss. Advertised, Eng. News, Jan. 25 to Feb. 8.		Jan.	25
Feb. 12	Lighting plant, Afton, Ia.		Jan.	25
Feb. 14	Light & water plant, Wynnewood, Ind. T.		Feb.	1
Feb. 14	Electric light plant, Gunnison, Colo.		Jan.	25
Feb. 20	Lighting, Oil City, Pa. Advertised, Eng. News, Jan. 25 to Feb. 8.		Jan.	25
Feb. 24	Power plant, Lima, O. Advertised, Eng. News, Jan. 25.		Jan.	25
Feb. 26	Generators, etc., Winnipeg, Man.		Jan.	18
No date.	Lighting plant, etc., Watonga, Okla.		Feb.	1
	BRIDGES.			
Feb. 1	Bridges, Harrisburg, Pa.		Jan.	18
Feb. 3	Bridge, Chandler, Okla.		Jan.	25
Feb. 5	Bridge, Clarksdale, Miss.		Feb.	1
Feb. 5	Bridge, Jackson, Cal.		Feb.	1
Feb. 6	Bridges, Laporte, Ind.		Jan.	25
Feb. 7	Bridge, Waupaca, Wis.		Feb.	1
Feb. 7	Bridge, Colfax, Wash.		Jan.	25
Feb. 12	Bridge, Delaware, O.		Jan.	25
Feb. 13	Bridges, Plattsmouth, Neb.		Feb.	1
Feb. 13	Bridge, Chattanooga, Tenn. Advertised, Eng. News, Feb. 1.		Feb.	1
Feb. 14	Bridges, Philadelphia, Pa. Advertised, Eng. News, Jan. 18 to Feb. 1.		Jan.	18
Feb. 19	Viaduct, Atlanta, Ga. Advertised, Eng. News, Jan. 25 and Feb. 1.		Jan.	25
Feb. 19	Reflooring bridge, Minneapolis, Minn.		Feb.	1
Feb. 20	Bridges, Hailey, Idaho		Feb.	1
Feb. 20	Bridges, Wayne, Neb.		Jan.	25
Mar. 30	Bridge, Port Huron, Mich. Advertised, Eng. News, Feb. 1.		Feb.	1
Mar. 31	Bridge, Custer, S. Dak.		Jan.	25
	BUILDINGS.			
Feb. 1	Building, Lincoln, Neb.		Jan.	25
Feb. 1	Wiring, New York, N. Y. Advertised, Eng. News, Jan. 18 to Feb. 1.		Jan.	25
Feb. 1	Library, Edgerton, Wis.		Dec.	21
Feb. 1	Building, Des Moines, Ia.		Jan.	11
Feb. 1	Town hall, Perham, Minn.		Jan.	11
Feb. 2	Building, Northfield, Minn.		Jan.	11
Feb. 3	Windows and frames, Washington, D. C.		Jan.	18
Feb. 5	Heating and Plumbing, Logan, Ia.		Jan.	4
Feb. 5	Hotel, Springfield, Mo.		Jan.	18
Feb. 5	Court-house, Chicago, Ill.		Jan.	25
Feb. 5	School, Mt. Vernon, N. Y.		Jan.	25
Feb. 5	Plumbing, etc., New York, N. Y.		Feb.	1
Feb. 5	Addition, New York, N. Y.		Feb.	1
Feb. 5	School, Brooklyn, N. Y.		Feb.	1
Feb. 6	Veranda, Delaware City, Del. Advertised, Eng. News, Jan. 18 and 25.		Jan.	18
Feb. 6	Heating, etc., Donaldsville, La.		Jan.	18
Feb. 6	Steel sheds, New Orleans, La.		Jan.	4
Feb. 6	Officers' quarters, Chelsea, Mass.		Jan.	4
Feb. 7	Alterations, Gowanda, N. Y. Advertised, Eng. News, Jan. 25 and Feb. 1.		Jan.	25
Feb. 7	Jail, Walla Walla, Wash.		Jan.	25
Feb. 7	Building, Willard, N. Y.		Feb.	1
Feb. 7	Heating, etc., Rochester, N. Y.		Feb.	1
Feb. 8	Addition, New York, N. Y.		Feb.	1
Feb. 8	Court-house, New York, N. Y.		Jan.	25
Feb. 8	Building, Crawfordsville, Ind.		Jan.	25
Feb. 9	Building, Ames, Ia.		Jan.	4
Feb. 12	Building, Norristown, Pa.		Feb.	1
Feb. 13	Wiring, New York, N. Y.		Feb.	1
Feb. 13	Addition, New York, N. Y.		Feb.	1
Feb. 14	Armory, Spokane, Wash.		Feb.	1
Feb. 14	Elevators, Baltimore, Md. Advertised, Eng. News, Jan. 25 and Feb. 1.		Jan.	25
Feb. 14	Gymnasium, Annapolis, Md. Advertised, Eng. News, Jan. 25 and Feb. 1.		Jan.	25
Feb. 15	Boat-house, New York, N. Y.		Feb.	1
Feb. 16	Armory, Holyoke, Mass.		Jan.	18
Feb. 24	Building, Otoe, Okla.		Feb.	1
Feb. 24	Plumbing, etc., Ft. Sam Houston, Tex.		Feb.	1
Feb. 26	Granite, Washington, D. C. Advertised, Eng. News, Jan. 25 to Feb. 15.		Jan.	25
Feb. 28	Plumbing, Washington, D. C. Advertised, Eng. News, Feb. 1 to 22.		Feb.	1
Feb. 28	Buildings, Philadelphia, Pa. Advertised, Eng. News, Feb. 1 and 8.		Feb.	1
Feb. 28	Framing, etc., Washington, D. C. Advertised, Eng. News, Feb. 1 to 22.		Feb.	1
Mar. 5	Elevator, Grand Rapids, Mich. Advertised, Eng. News, Jan. 18 and 25.		Jan.	18
Mar. 15	Church, Zanesville, O.		Feb.	1
	WATER SUPPLY AND IRRIGATION.			
Feb. 1	Coagulating basin, Norfolk, Va. Advertised, Eng. News, Jan. 18 and 25.		Jan.	18
Feb. 1	Water-works, Palatka, Fla.		Jan.	18
Feb. 2	Water system, Waverly, Minn.		Jan.	18
Feb. 3	Water system, Fort Fremont, S. C.		Jan.	11
Feb. 5	Water-works, McMinnville, Ore.		Jan.	11
Feb. 5	Condensers, Jacksonville, Fla.		Jan.	18
Feb. 5	Water mains, Normal, Ill.		Feb.	1
Feb. 5	Pumping engines, Albany, N. Y.		Feb.	1
Feb. 6	Water-works, Brandon, Minn.		Jan.	18
Feb. 6	Water system, Greeley, Colo. Advertised, Eng. News, Jan. 4 and 11.		Jan.	4
Feb. 6	Water plant, Rapid City, S. Dak.		Jan.	25
Feb. 6	Reservoir, San Francisco, Cal.		Jan.	25
Feb. 6	Water plant, Cochran, Ga. Advertised, Eng. News, Jan. 25.		Jan.	25
Feb. 7	Stand-pipe, filter plant, Rahway, N. J. Advertised, Eng. News, Jan. 18 to Feb. 1.		Jan.	18
Feb. 7	Water-works supplies, New York, N. Y.		Feb.	1
Feb. 7	Cast-iron pipe, Toledo, O.		Feb.	1
Feb. 10	Reservoir, etc., Sandy Hook, N. J.		Jan.	18
Feb. 12	Addition, w-works bldg., Rock Island, Ill.		Feb.	1
Feb. 14	Water system, Gunnison, Colo.		Jan.	25
Feb. 15	Water-works, De Queen, Ark. Advertised, Eng. News, Jan. 4.		Jan.	4
Feb. 16	Water system, Riverside Park, Va.		Jan.	25
Feb. 19	Water and light plant, Jackson, Mo. Advertised, Eng. News, Jan. 25 and Feb. 1.		Jan.	25
Feb. 19	Stand-pipe, Sherman, Tex.		Feb.	1
Feb. 24	Water system, etc., Lawrence, Ind.		Feb.	1
Mar. 1	Pumping plant, Harlingen, Tex. Advertised, Eng. News, Feb. 1 and 8.		Feb.	1
Mar. 6	Water tank, Parkridge, Ill.		Feb.	1
	SEWERAGE.			
Feb. 1	Sewers, Reading, Pa. Advertised, Eng. News, Jan. 18 and 25.		Jan.	18
Feb. 1	Sewer system, St. Johns, Ore.		Dec.	21
Feb. 2	Sewers, Harrisburg, Pa.		Jan.	25
Feb. 5	Sewers, Montgomery, Ala.		Jan.	25
Feb. 5	Sewers, Fresno, Cal.		Jan.	18
Feb. 5	Sewers, Cincinnati, O.		Jan.	18
Feb. 5	Sewer system, Narberth, Pa. Advertised, Eng. News, Jan. 18 and 25.		Jan.	18
Feb. 5	Sewer, Normal, Ill.		Feb.	1
Feb. 6	Sewer pipe, Washington, D. C.		Feb.	1
Feb. 6	Addition, disposal plant, Savannah, Ga.		Jan.	18
Feb. 8	Sewers, New York, N. Y.		Jan.	25
Feb. 10	Sewer, Jefferson Barracks, Mo.		Jan.	25
Feb. 10	Repairing sewers, Menands, N. Y.		Feb.	1
Feb. 13	Sewers, New York, N. Y.		Feb.	1
Feb. 15	Sewer, Emmetsburg, Ia.		Jan.	25
Feb. 15	Sewers, Cresco, Ia.		Jan.	25
Feb. 15	Storm sewer system, Dayton, O.		Jan.	4
Feb. 16	Sewers, Mohawk, N. Y. Advertised, Eng. News, Jan. 25 and Feb. 1.		Jan.	25
Feb. 16	Box culvert, Cincinnati, O.		Feb.	1
Feb. 19	Purification plant, Ft Assinniboine, Mont. Advertised, Eng. News, Jan. 25 to Feb. 15.		Jan.	25
Feb. 22	Sewer system, Lexington, N. C. Advertised, Eng. News, Feb. 1 to 15.		Feb.	1
Feb. 24	Sewer system, Lawrence, Ind.		Feb.	1
Feb. 27	Sewer system, Cloverdale, Cal.		Feb.	1
Mar. 5	Sewers, drains, Jacksonville, Fla.		Feb.	1
Mar. 6	Sewer system, Toronto, Ont. Advertised, Eng. News, Feb. 1 to 15.		Feb.	1
	STREETS AND ROADS.			
Feb. 1	Paving, Lawton, Okla.		Jan.	11
Feb. 2	Paving, Waukegan, Ill.		Feb.	1
Feb. 5	Gravel road, Danville, Ind.		Feb.	1
Feb. 5	Grading, Rockville, Ind.		Jan.	11
Feb. 5	Paving, Lawrence, Kan. Advertised, Eng. News, Jan. 18.		Jan.	18
Feb. 5	Paving, St. Paul, Minn.		Jan.	18
Feb. 5	Paving, Greensburg, Ind.		Jan.	25
Feb. 6	Paving, Columbus, Ga.		Jan.	25
Feb. 6	Stone roads, Sullivan, Ind.		Feb.	1
Feb. 6	Bitulithic paving, Shelbyville, Ind.		Feb.	1
Feb. 6	Roads, Winamac, Ind.		Feb.	1
Feb. 7	Repairing sidewalks, etc., N. York, N. Y.		Feb.	1
Feb. 7	Roads, Jefferson Barracks, Mo.		Jan.	18
Feb. 8	Paving, New York, N. Y.		Jan.	25
Feb. 9	Gravel roads, Brazil, Ind.		Feb.	1
Feb. 9	Stone, Cincinnati, O.		Feb.	1
Feb. 10	Paving sidewalks, Roanoke, Va. Advertised, Eng. News, Jan. 18.		Jan.	18
Feb. 12	Macadamizing, Delaware, O.		Feb.	1
Feb. 13	Brick paving, New York, N. Y.		Feb.	1
Feb. 13	Paving, Independence, Kan. Advertised, Eng. News, Jan. 18.		Jan.	18
Feb. 14	Paving, Little Rock, Ark.		Jan.	18
Feb. 14	Paving, Houston, Tex.		Feb.	1
Feb. 15	Paving, Red Jacket, Mich.		Feb.	1
Feb. 15	Paving, Rhinelander, Wis.		Jan.	25
Feb. 23	Asphalt resurfacing, Minneapolis, Minn.		Feb.	1
Feb. 23	Paving materials, Minneapolis, Minn.		Feb.	1
No date.	Paving, Detroit, Mich.		Jan.	25
	MISCELLANEOUS CONTRACTS.			
Feb. 1	Canals, Roswell, N. Mex. Advertised, Eng. News, Dec. 28 to Jan. 18.		Dec.	28
Feb. 1	Dam, Boise, Idaho Advertised, Eng. News, Jan. 4 to 25.		Jan.	4
Feb. 1	Vessel, Washington, D. C.		Jan.	11
Feb. 1	Earthen dam, Denison, Tex.		Feb.	1
Feb. 2	Pier, New York, N. Y.		Feb.	1
Feb. 2	Supplies, Panama		Jan.	18
Feb. 2	Ditch, Willmar, Minn.		Jan.	18
Feb. 2	Boilers, Buffalo, N. Y.		Jan.	25
Feb. 5	Test borings, New York, N. Y. Advertised, Eng. News, Jan. 25 and Feb. 1.		Jan.	25
Feb. 5	Drain, Iowa City, Ia.		Jan.	4
Feb. 5	Dike, Ford City, Pa.		Feb.	1
Feb. 5	Retaining wall, Bradford, Pa.		Feb.	1
Feb. 5	Drain, Eldora, Ia.		Feb.	1
Feb. 5	Railway shops, etc., Atlantic Coast Line. Advertised, Eng. News, Jan. 4 to 18.		Feb.	1
Feb. 6	Steel sheds, New Orleans, La. Advertised, Eng. News, Dec. 28 and Jan. 4.		Dec.	28
Feb. 6	Cement, Belle Fourche, S. Dak. Advertised, Eng. News, Jan. 11 to Jan. 25.		Jan.	11
Feb. 6	Dock, Palm Beach, Fla.		Jan.	18
Feb. 6	Cement, Montrose, Colo. Advertised, Eng. News, Jan. 18 to Feb. 1.		Jan.	18
Feb. 6	Rubber hose, Pensacola, Fla.		Jan.	25
Feb. 6	Incinerator extension, New York, N. Y.		Jan.	25
Feb. 7	Bulkheads, etc., Baltimore, Md. Advertised, Eng. News, Jan. 18 to Feb. 1.		Jan.	18
Feb. 7	Railway, Belgium (Foreign)		Jan.	18
Feb. 7	Refrigrtg apparatus, Poughkeepsie, N. Y.		Feb.	1
Feb. 8	Riprap breakwaters, New York, N. Y. Advertised, Eng. News, Jan. 11 to Feb. 1.		Jan.	11
Feb. 8	Steel lock gates, Nashville, Tenn. Advertised, Eng. News, Jan. 11 to Feb. 1.		Jan.	11
Feb. 8	Drainage ditch, Sioux City, Ia.		Jan.	4
Feb. 9	Building, Spain (Foreign)		Jan.	18
Feb. 9	Cement, Minneapolis, Minn.		Feb.	1
Feb. 10	Pier, Portsmouth, N. H.		Jan.	18
Feb. 10	Fire alarm system, Norfolk, Va.		Jan.	18
Feb. 10	Breakwaters, etc., Egypt (Foreign)		Jan.	4
Feb. 10	Steel caisson, Charleston, S. C.		Jan.	11
Feb. 13	Steel tower, Shreveport, La. Advertised, Eng. News, Dec. 28 to Feb. 8.		Dec.	28
Feb. 14	Iron gates, Winchester, Va.		Jan.	25
Feb. 15	Locks and dams, Dallas, Tex. Advertised, Eng. News, Jan. 4 to 18 and Feb. 8.		Jan.	4
Feb. 15	Ry. excavation, C., C., C. & St. L. Ry. Advertised, Eng. News, Feb. 1 and 8.		Feb.	1
Feb. 19	Miscell. supplies, Panama Advertised, Eng. News, Feb. 1 and 8.		Feb.	1
Feb. 19	Wooden snagboats, Dallas, Tex. Advertised, Eng. News, Jan. 18 to Feb. 8.		Jan.	18
Feb. 20	Ditch, Northwood, Ia.		Feb.	1
Feb. 23	Dredging, Galveston, Tex. Advertised, Eng. News, Jan. 25 to Feb. 15.		Jan.	25
Feb. 23	Filling, Galveston, Tex. Advertised, Eng. News, Jan. 25 to Feb. 15.		Jan.	25
Feb. 27	Hose wagon, Crookston, Minn.		Feb.	1
Feb. 28	Sluice gates, etc., Los Angeles, Cal. Advertised, Eng. News, Jan. 25 to Feb. 8.		Jan.	25
Mar. 2	Dredging, Savannah, Ga. Advertised, Eng. News, Feb. 1 to Mar. 1.		Feb.	1
Mar. 2	Repairing wall, Savannah, Ga. Advertised, Eng. News, Feb. 1 to Mar. 1.		Feb.	1
Mar. 10	Two snagboats, Vicksburg, Miss. Advertised, Eng. News, Jan. 11-18, Feb. 1-8.		Jan.	11
Apr. 2	Port works, Chile		May	4
Apr. 3	Ditch, Spirit Lake, Ia. Advertised, Eng. News, April 1, 1906.		Jan.	18
Apr. 5	Wharves, Manila, P. I.		Dec.	14
May 1	Steel dock, Chile		Nov.	9
No date.	Dyke, Lincoln, Neb. Advertised, Eng. News, Jan. 18.		Jan.	18
No date.	Steam shovel excavation, Towanda, Pa.		Feb.	1
No date.	Cement, Chicago, Ill.		Feb.	1
	CIVIL SERVICE EXAMINATIONS.			
Feb. 7	Engineers, Washington, D. C.		Feb.	1
Feb. 13	Asst. Engineer, New York, N. Y. Advertised, Eng. News, Jan. 25 and Feb. 1.		Jan.	25
Feb. 14	Machinist, Washington, D. C.		Jan.	25
Feb. 14	Engineman, Portland, Me.		Feb.	1
Feb. 15	Inspector Steel Cons., New York, N. Y. Advertised, Eng. News, Jan. 25 and Feb. 1.		Jan.	25
Feb. 16	Transitman, Computer, New York, N. Y. Advertised, Eng. News, Jan. 25 and Feb. 1.		Jan.	25
Feb. 17	Asst. Elec. Engr., Albany, N. Y.		Feb.	1
Feb. 17	C. E. Draftsman, Albany, N. Y.		Feb.	1
Feb. 17	Foreman Laborers, Albany, N. Y.		Feb.	1
Feb. 17	Asst. C. E., Albany, N. Y.		Feb.	1
Feb. 17	Arch. Designer, Albany, N. Y.		Feb.	1
Feb. 17	Arch. Draftsman, Albany, N. Y.		Feb.	1
Feb. 17	Leveler, Albany, N. Y.		Feb.	1
Feb. 20-21	Draftsman, Washington, D. C.		Feb.	1
Feb. 21	Rock Grinder (special), Wash., D. C.		Feb.	1
Feb. 21	Statistician, Washington, D. C.		Feb.	1
Feb. 21	Assayer, Ore Dresser, Washington, D. C.		Feb.	1

TO ENGINEERS AND CONTRACTORS

ENGINEERING NEWS desires to obtain the **earliest possible reliable information** concerning all projected work. We will appreciate any items that you may send us. Copies containing such information will be mailed to you, upon request.

ADDRESS

Wainwright A. S. Randall, Editor,
The Construction News Department.

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ATLANTIC COAST LINE.—We are officially informed that new bids are asked until noon, Feb. 5, for grading, sewerage, water supply, brick and steel buildings and all other work in connection with constructing new locomotive works and car shops at Waycross, Ga., except machinery and equipment. Plant will include a roundhouse, oil house, storehouse, machine and erecting shop, blacksmith shop, coach shop, paint shop, planing mill, foundry, pattern storehouse, dry kiln and frame freight car repair shop. Proposals submitted are to cover plant complete, except machinery and equipment. R. E. Smith, Gen. Supt. Motive Power, Wilmington, N. C. Advertised in Engineering News from Jan. 4 to Jan. 18.

CLEVELAND, CINCINNATI, CHICAGO & ST. LOUIS.—Bids are asked by W. M. Duane, Supt. Construction, at Cincinnati, O., until noon, Feb. 15, for grading and masonry involved in double-track construction on relocation of the Cincinnati division. Approximate quantities are: earthwork, 2,000,000 cu. yds., subdivided into sections ranging from 200,000 to 800,000 cu. yds.; masonry, 20,000 cu. yds. (Advertised, Engineering News.)

CHICAGO, ROCK ISLAND & PACIFIC.—The city council of Joliet, Ill., has passed an ordinance, which has been signed by Mayor Richard J. Barr, providing for track elevation in Joliet and the erection of a union depot. The track elevation will cost $3,000,000, it is said. The railroad companies concerned are the Chicago, Rock Island & Pacific; Chicago & Alton; Chicago, Lake Shore & Eastern; the Elgin, Joliet & Eastern; Michigan Central and the Atchison, Topeka & Santa Fe.

CHICAGO, INDIANAPOLIS & LOUISVILLE.—Plans are in preparation, it is reported, for construction of a branch line from Cloverdale to Linton, Ind. W. A. Wallace is Ch. Engr., at Chicago.

CHICAGO, INDIANAPOLIS & EVANSVILLE.—The CARTER CONSTRUCTION CO., of Chicago, has the contract to build a line from Toleston, Ind., to Evansville. The promoters contemplate a main line from Chicago to Evansville, touching Indianapolis, with branches from Crownpoint to Toleston, from Logansport to South Bend, and from Booneville to Owensboro, Ky. The principal terminal of the road will be at Toleston, where a $40,000,000 plant is to be erected by the United States Steel Corporation.

CLEVELAND, CINCINNATI, CHICAGO & ST. LOUIS.—The city engineer of Springfield, O., has made surveys for elevation of this company's tracks in Springfield. An elevated structure may be used. If this were used the cost would be about $1,500,000.

DELAWARE & HUDSON.—Officials have announced that $1,600,000 is to be spent to build a freight branch of the road around Wilkes-Barre, Pa., from Yatesville, six miles above here, to Buttonwood, three miles below, in order to relieve freight congestion. James McMartin is Ch. Engr., at Albany, N. Y.

EAST CAROLINA RY.—It is announced that Henry Clark Bridgers, Pres., Tarboro, N. C., is in the market for spikes, angle bars, switches, grading outfit, steam shovels, scoopers, etc., for 15-mile railway. B. F. Finney is Pur. Agt.

ILLINOIS CENTRAL.—Subcontracts will be let by C. D. SMITH & CO., Memphis, Tenn., and JOHN SCOTT & SONS, of St. Louis, Mo., who have contracts for work from Corinth, Miss., southward.

LIBERTY-WHITE R. R.—An extension will be built from Liberty to Natchez, Miss. It is probable that bids will be received soon for grading this line. W. M. White is Gen. Mgr., at McComb, Miss.

MORGAN'S LOUISIANA & TEXAS R. R.—Bids are asked until noon, Feb. 7, for the construction of a branch line from Lafayette, La., to a point on the Mississippi River opposite Baton Rouge. Plans, profiles and estimates may be seen at the office of C. G. Vaughn, Engr-in-Charge, 517 Natchez St., New Orleans, La. E. B. Cushing is Gen. Supt.

NORFOLK & WESTERN.—The directors last week authorized the construction of about 42 miles of second-track at various points in the coal fields east and west of Lynchburg, Va., and also the expenditure of about $500,000 for enlarging the yards at Norfolk, Bluefields and Williamson. C. S. Churchill is Ch. Engr., Roanoke, Va.

PENNSYLVANIA R. R.—The New York "Times" states that two plans are under consideration by this company for tunnels through the Alleghany Mountains, one nine miles and the other eleven miles long. Other plans are for routes across the mountains, one 90 miles and the other 105 miles long. The 9-mile tunnel plan probably will be adopted. The tunnel would enter the mountain at or near Kittanning Point and emerge between Cresson and Lilly. This tunnel would be the second in size in the world. It would accommodate four tracks and be ventilated with shafts reaching the crests of the mountains. All operations through it would be by electric power. The cost of the tunnel and making connections with the main line are estimated at more than $15,000,000.

PENNSYLVANIA R. R.—A. J. Cassatt, Pres. of this company has made public the changed plans for enlarging the Pennsylvania system through the boroughs of Queens and Brooklyn, New York. New freight yards are to be built, in connection with the elimination of grade crossings on the Long Island R. R. The work contemplates the following construction: Newtown Creek development—bulkheads, piers and tracks; new freight line connection from North Shore yard to the Montauk Division: new freight terminal, including 100 city lots; Sunnyside yard, 400 acres, including 8,712 city lots; connection from New York Connecting Railroad to yard; New York Connecting Railroad; Glendale cut-off between the main line and the Rockaway and Montauk division; Maple Grove cut-off; freight yard, Bushwick Junction, 96 city lots; freight terminals at Bushwick and East New York; seven freight delivery yards on the N. Y., Brooklyn & Manhattan Beach line; freight terminal yard, Bay Ridge, 790 city lots; change of line, Brighton Beach improvement; terminal at Sheepshead Bay, 390 city lots; freight terminal yards, Flatbush Ave. These various contracts, including tunnel and station in Borough of Manhatan, will cost, probably, about $100,000,000. Temporarily, the matter is before the Rapid Transit Commission which is considering the proposed franchise for the New York Connecting R. R. which will be built from Bay Ridge to Port Morris. Chief Engineer Harry P. Nichols, of the Board of Estimate Bureau of Franchises, has recommended that the Pennsylvania R. R. pay the city of New York a bonus of $250,000 and rental at the rate of $50,000 for the first ten years and $100,000 a year for the next 15 years for the N. Y. Connecting R. R.'s franchise.

PHILADELPHIA & READING.—An agreement has been reached between the city of Philadelphia and this company in regard to abolition of certain grade crossings. Under this agreement the Ninth St. tracks will be elevated, on an open structure of steel, from Girard Ave. northward to above Jefferson St. From Jefferson St. northward will be built a solid structure with a 1.06% grade. The grade crossings on the Port Richmond branch are to be eliminated also. There will be available $10,000,000 for the work, of which the city is to contribute one-half. William Potter, Charles Emory Smith and Francis B. Smith constitute the advisory board of the mayor.

ROGERS SOUTHWESTERN.—This company has awarded a contract to the W. R. FELHER CONSTRUCTION CO., of Rogers, Ark., to build its proposed road, which will extend from Rogers, Ark., on the St. Louis & San Francisco R. R., to a point on the Kansas City Southern, either at Gentry or Siloam Springs, Ark., about 30 miles. W. R. Felher, of Rogers, Ark., is Pres.

ST. LOUIS MANUFACTURERS' RY.—This is a new terminal line backed by the Anheuser-Busch Brewing Co., of St. Louis, Mo., which owns an industrial railway known as the Manufacturers' Ry. It is proposed to build a connecting line to bring the Kansas City Southern Ry. into St. Louis. A tunnel under the Mississippi River to connect with the numerous terminal yards on the Illinois side of the river is also proposed. Adolf Busch, St. Louis, Mo., is Pres.

ST. LOUIS, ROCKY MOUNTAIN & PACIFIC.—The UTAH CONSTRUCTION CO., of Salt Lake City, Utah, has a contract for grading 125 miles on this company's line in Colorado.

VIRGINIA.—It is reported that the Bear-Wallace Construction Co., Roanoke, Va., will buy railroad-construction material for a $100,030 contract. Address John C. Wallace, Secy. and Treas., P. O. Box 204, Ronaoke, Va.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

FITCHBURG, MASS. — The Fitchburg, Ashburnham & Winchendon Street Ry. Co. will be incorporated, with $250,000 capital, to build a line from Fitchburg, through Ashburnham, Winchendon, Winchendon Springs and Waterville, to Fitzwilliam, N. H. M. E. Converse, Elisha Whitney, Wendell Clark, Zadoc L. White, W. M. Whitney and C. L. Beale, of Winchendon, Mass., are interested. Blood & O'Connell, of Fitchburg, are the Attys.

BRIDGEPORT, CONN.—The Connecticut Ry. & Lighting Co. will double-track its line, it is said, from New Haven to Hartford. J. E. Sewell is Gen. Mgr.

The contract for the construction of the electric railway between Seymour and Naugatuck, through the Naugatuck Valley, has been let by the Connecticut Railway & Lighting Co. to D. W. BLAKESLEES' SONS of New Haven. The new road will run through High Rock and Beacon Falls, and parallel the Naugatuck division of the New York, New Haven & Hartford Railroad. It will be ten miles long.

BROOKLYN, N. Y.—The Brooklyn Rapid Transit Co. may build an elevated railroad on Railroad Ave., from the Culver yards to Sea Gate. Dow S. Smith, 85 Clinton St., is Gen. Supt.

ILION, N. Y.—We are officially informed that surveys are completed for the Ilion & Sydney R. R. It will be 63 miles long, from Ilion to Cedarville, Winfield, West Exeter, Morris and Sydney. Right-of-way is practically secured, but capital is not yet obtained. No contracts are let and time for awarding them is indefinite. W. G. Stone, Mann Bldg., Utica, N. Y., is Ch. Engr. Previously noted.

SEA BRIGHT, N. J.—William Tabor Parker, of Little Silver, N. J., is reported to be securing right-of-way for an electric railway which it is proposed to build from Sea Bright to Red Bank, with a branch, possibly, to Highland Beach and Long Branch.

MIDDLEBROOK, VA.—Bids will be received about April 1 for building the proposed line from Staunton to Middlebrook. F. H. Lewis is Engr.-in-Charge. Noted last week.

BIRMINGHAM, ALA.—We are officially informed that it is proposed to construct an electric trunk line railroad connecting the Birmingham district with tidewater transportation at Tuscaloosa, on the Warrior River, also to operate a line of boats and barges on the river. J. M. Dewberry and associates, Title Guarantee Bldg., Birmingham, are promoting the road. The important franchises are in hand, and the Tidewater Development Co. is about to be organized to take over these franchises, continue the promotion, make the surveys, locate the road, organize the railroad company, sell its securities, build the road and develop its properties along the line. It will pass through Atalla, Alabama City, Gadsden, Springville, East Lake, Woodlawn, Avondale, North Birmingham, Birmingham, Pratt City, Ensley, Bessemer, and Tuscaloosa, about 100 miles in length. There will be no tunnels, and only a few small bridges. "Power plants can be located at the coal mines, equipped with the latest steam turbo-generators and can furnish power at probably less cost than can the best water power plants and with much more reliability and in greater quantity. Water power plants are accessible with good conditions if desired. Both the Warrior River and the Coosa River can be utilized. Large additional profits can be derived by supplying electricity for lighting the towns and driving factories and other industries. Electric passenger and freight service, electric lights, electrically driven pumps for water-works, electric power for all factory and other purposes, will create a marvelous development from one end of the line to the other."

MOBILE, ALA.—J. H. Wilson, Pres. of the Mobile Light & Railroad Co., is quoted as saying that the company will spend about $200,000 in improving its system. The company operates 42 miles of line.

NEW ORLEANS, LA.—A franchise has been sold by Albert Estopinal, Pres. of the police jury to Wm. J. Kelly, Pres. of the Louisiana Lime Co., New Orleans, and Chicago and New York capitalists to construct an electric line from the slaughter house in St. Bernard, La., to Borgne Mouth, according to the Pink Sheet Bulletin. The length of the road will be twelve miles.

SPRINGFIELD, O.—We are officially advised that the Washington County Traction Co. has purchased the Springfield, Charleston, Washington & Chillicothe Traction line and will take possession on March 1. The road is in operation from Springfield to South Charleston, 17 miles. Construction will begin in April, on the proposed line to South Solon, Jeffersonville, Washington Court-House, New Holland, Clarksburg and Chillicothe, about 60 miles. Finances are all arranged. Contracts will be let about April 1. Right-of-way nearly all secured. E. W. Christy, Cleveland, O., is Pres.; J. S. Harshman, Springfield, is Gen. Mgr.

STEUBENVILLE, O. — The Steubenville Traction & Light Co. will extend its Steubenville & Pleasant Heights line to La Belle View. J. C. Ross is Gen. Mgr.

BELLAIRE, O.—We are officially informed that the Osborn Engineering Co., of Cleveland, O., has made preliminary surveys and report for a 15-mile line for the Belmont Electric Ry. Co., from Bellaire to St. Clairsville.

COLUMBUS, IND.—We are officially advised that surveys are about completed and right-of-way obtained for the Indianapolis, Columbus & Southern Traction Co.'s extension from Columbus to Seymour, 20 miles. Capital is secured. Contracts will be let within 60 days' time. Joseph I. Irwin is Pres.; W. G. Irwin is Secy., and J. E. Jolliffe is Ch. Engr., all at Columbus.

INDIANAPOLIS, IND.—The Capital Circuit Traction Co. has been organized to build an electric railroad around Indianapolis, Ind., in a circle of about 25 miles radius, through Greenfield, Shelbyville, Franklin, Martinsville, Danville, Lebanon and Noblesville. Capital stock, $100,000. J. N. Crabb is Pres.; C. E. Worth, Secy. and Treas.; C. E. Averill, Gen. Counsel; J. A. Shafer, Ch. Engr., all of Indianapolis. J. W. Trotter, of Danville, Ind., is Vice-Pres.

BENTON HARBOR, MICH.—See under Light and Power Plants.

LANSING, MICH.—The Piatt Heat & Power Co. has secured practically all of the right-of-way for the Grand Ledge electric railway, and announces that the line will be built this summer.

CHICAGO, ILL.—Mayor E. F. Dunne announces that he has signed the street railway municipal ownership ordinances recently passed by the City Council. The ordinances will go before the people for approval by ballot this spring. The measures provide for the issuance of $75,000,000 in Mueller certificates and empower the city to own and operate street railways.

MATTOON, ILL.—We are officially advised that surveys are completed for the Decatur, Sullivan & Mattoon Transit Co.'s line, and right-of-way is 60% secured. Franchises are partly secured or practically agreed upon. The railway will extend from Mattoon to Sullivan, Bethany, Dalton City, Henry City, Mount Zion and Decatur, a distance of 45 miles. "It is excellently located from geographical and commercial view point." The right-of-way and franchises will be obtained first, before submitting the proposition to investors. R. B. Starbuck is Pres, at Mattoon. As recently noted, we were informed by A. M. Shaw, Room 12, Countryman Bldg., Dixon, Ill., that he will be in the market about May, 1906, for equipment for the Decatur, Sullivan & Mattoon Transit Co.'s line. In the meantime he desires to correspond with dealers regarding prices of equipment for use in his preliminary estimate, who would be willing to assist him in getting out these preliminary estimates of the electrical equipment for the advantage that they might derive later.

CHAMPAIGN, ILL. — R. A. McCracken, Paxton, Ill., writes us that the Chicago, Kankakee & Champaign Electric Ry. Co. has taken no steps yet toward securing right-of-way, etc., for this railway. This company recently purchased the Kankakee Electric Ry. with purpose of rebuilding and re-equipping it. F. L. Butterfield is Pres., 1306 Tribune Bldg., Chicago. C. C. Brown, Commercial Club Bldg., Indianapolis, Ind., is Ch. Engr.

MILWAUKEE, WIS.—J. M. Seamann, Pres., announces that if a franchise is granted in Milwaukee to the Milwaukee-Northern Railway Co., a complete interurban, connecting Milwaukee with Fond du Lac, West Bend, Cedarburg, and intermediate towns on a direct line, will be in operation within two years from the time the franchise is granted.

SIOUX CITY, IA.—We are officially informed that surveys are finished and right-of-way partly secured for the Sioux City & Ireton Ry. Wakefield & M[illegible] are the Engrs., Sioux City. The railway is to be about 35 miles long, from Sioux City to Potosin, Ellendale and Ireton. W. A. Karr, of Sioux City, is Pres.

ST. LOUIS, MO.—A franchise has been applied for, for the Wellston, [illegible]wood Park & Florissant Railway Co. to build from Easton Ave. to Florissant. Robert L. McLaren, Edward Gorman, Russell Richardson and Stephen Sexton are the promoters.

SEASIDE, ORE.—W. L. Du[illegible], of Seattle, Wash., has been granted a [illegible]-year franchise for an electric railroad within Seaside city limits.

SAN JOSE, CAL.—F. J. [illegible]born, Ch. Engr. of the Peninsula R. R., San Jose, Cal., states that contracts are to be let Feb. 1 for building this line from San Mateo to San Jose, Cal., a distance of 25 miles. Fourteen miles have been surveyed. Grading will begin about March 1. The road is to be double track, for freight and passenger service, with maximum grades of 1%. O. A. Hale is Pres.; F. E. Chapin, Gen. Mgr., all of San Jose. H. H. Lynch is Consult. Engr., San Francisco, Cal. Fully noted on Jan. 11th.

QUEBEC, QUE.—The management of the Canadian Pacific Ry. Co. has taken up actively the idea of using electricity for motive power, according to the New York "Commercial." "Electricity will first be installed on some of the branch lines in Quebec, and the first car for this purpose is now being constructed. If the trial trips are satisfactory, it is probable that electricity will come into general use on most of the company's branch and suburban lines. The President of the Canadian Pacific predicts the rapid adoption of electricity for the shorter branch lines, and believes the day will come when electricity will be used to take the trains from coast to coast."

EDMONTON, ALTA.—Robt. P. Inglis, of Montreal, Que., who has a charter for the construction of a street railway in Edmonton, has gone to Europe to secure capital for his enterprise, it is reported.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

WINOOSKI (post-office, Burlington), VT.—The village trustees have granted a franchise to install a gas plant to John R. Dawson, Boston, Mass.

BOSTON, MASS.—Council has voted to decide on question of constructing a municipal gas and electric lighting plant on Feb. 1. William Jackson is City Engr.

HADLEY, N. Y.—It is stated that the Hudson River Water Power Co., of Glens Falls, will erect a power plant and storage reservoir at this place.

ALBANY, N. Y.—Bids for lighting for the period of one or five years, noted on Jan. 25, have been rejected by board of contract and supply. New bids will be asked to be opened about Feb. 5. Isidore Wachsman, Clk. Bd. Contract and Supply.

ORANGE, N. J.—Bids will be asked until about March 1 for lighting the streets of this city for three or five-year periods. F. T. Crane is City Engr.

CAMDEN, N. J.—Preliminary steps have been taken by council for the establishment of a municipal lighting plant. L. E. Farnham is City Engr.

PAULSBORO, N. J.—The borough council is having plans prepared for a gas plant at this place. W. J. Adamson is interested.

PINEGROVE, PA.—Town will vote on question of erecting a municipal electric light plant.

WILMINGTON, DEL.—The Wilmington Heat, Light and Power Co. will secure at once plans for the construction of a power house and plant to cost about $500,000. C. C. Kurtz is Pres.

SMYRNA, DEL.—Council is considering the sale of the municipal lighting plant to U. G. Glick, of the Smyrna Delaware Bay and Kent County Traction Co.

HYATTSVILLE, MD.—It is stated that city probably will vote on bond issue in February for constructing municipal electric lighting plant.

WASHINGTON, D. C.—Bids were opened Jan. 30 by the Bureau of Supplies and Accounts, Navy Dept., for furnishing and installing, including all necessary labor and material, the electrical apparatus, at the power house of the U. S. Naval Hospital, Washington, as follows: Malcolm W. Hill Co., Baltimore, $4,395; McKay Engineering Co., Baltimore, $4,645; National Electrical Supply Co., $3,959; W. M. Shehan & Co., New York, $3,929; Watson, Flagg Engineering Co., New York, $4,600; Western Electric Co., New York, $5,647.

RICHMOND, VA.—Council is considering amendments to city charter in order that a municipal light plant may be built.

NORFOLK, VA.—It is stated that Richard B. Fentress, Pres. Norfolk Ice & Cold Storage Co., contemplates the construction of an electric light plant at a cost of $1,000,000.

FLORENCE, S. C.—The Black Creek Power Co. is being organized to develop a hydro-electric power plant on Black Creek, 3½ miles from this place, according to official advices. Ladshaw & Ladshaw, of Spartanburg, S. C., are Engrs. It is estimated that 3,350 HP. will be available under a 22-ft. head. The company proposes to install two dynamos at present of 575 KW. each in an 80 × 30-ft. power house and produce current at 2,200 volts, which will be distributed to the surrounding towns of Florence, Darlington, Sumter and Marion. Later the balance of the equipment will be added to develop the ultimate power available. S. S. Ingman, Box 317, Florence, S. C., can give further information.

MARIETTA, GA.—A 50-year franchise has been granted to Arthur R. Law, of Philadelphia, to construct and maintain a gas plant here.

CORINTH, MISS.—This city has granted a franchise to W. J. Lamb, S. Rubel, M. T. Bynum, A. Rubel, of Corinth, and C. Lennen, of Chicago, Ill., to operate an electric light and power plant.

MORGAN CITY, LA.—It is stated that Byrnes & Young, mentioned last week as having a franchise to erect and operate a light plant, will install two units of [illegible] HP., 220 volts D. C.; estimated cost, $25,000. Contract has been let for the erection of building, but machinery has not been decided on.

SHREVEPORT, LA.—The Citizens' Oil and Pipe Line Co., of Shreveport, has been organized with a capital stock of $3,000,000, to develop the gas fields near this city. The company is authorized not only to pipe the gas to Shreveport, but from there to the states of Arkansas and Texas, and to different points throughout the state of Louisiana. The officers of the company are W. H. Leonard, Pres.; J. W. Atkins, Vice-Pres.; W. B. McCormick, Treas.; S. S. Hunter, Secy.

KNOXVILLE, TENN.—A contract has been awarded by this city to the CARBON LIGHT & POWER CO., Philadelphia, Pa., to install 150 gas street lamps and to burn them each night, from sundown to sunrise, for $21.50 per light per year.

OWENSBORO, KY.—The Owensboro City Railway Co. will erect a new power house and contract has been let to FARNSWORTH & HALL, of Henderson, Ky.

COLUMBUS, O.—The department of public service here is planning to enlarge the municipal lighting plant at a cost of $83,000. Julian Griggs is Ch. Engr. Dept. Pub. Service.

CINCINNATI, O.—The Security Building Co. will erect a power building at Pendleton and Dandridge Sts.

FORT WAYNE, IND.—The Kerr Murray Manufacturing Co. will immediately begin the erection of a new power plant. The new building will be of concrete strengthened with steel, 40 × 80 ft. and one story high.

SOUTH BEND, IND.—The South Bend Power Co., it is reported, has completed a survey for a proposed dam in the St. Joseph River on the line between Michigan and Indiana. Plans for the dam and for a large power house are now being prepared. The dam will cost in the neighborhood of $500,000 and will add about 2,500 HP. to the system of the company. The advisability of building also on the state line at Berrien Springs, Mich., will be considered at a meeting of the board of directors, which will be held in about 30 days. It will cost in the neighborhood of $1,250,000 and will furnish about 10,000 HP.

BENTON HARBOR, MICH.—The Benton Harbor & St. Joseph Railway and Light Co. has been organized for the purpose of taking over and operating radial and interurban lines and light and power plants in the neighborhood of St. Joseph, Mich. The company is capitalized at $1,000,000 and the offices will be at this city. W. L. McMichael, Pres., has stated that the intention of the company was to convert the steam power already in use on the lines to water power for the purpose of generating the electric current, and to extend the system until it would comprise at least 60 miles of track.

HOOPESTON, ILL.—The Hoopeston Gas and Electric Co. has been incorporated with capital of $200,000; incorporators, Fred A. Platt, William A. Jenks, Henry K. Hanley.

FORT SHERIDAN, ILL.—Bids are asked until noon, Feb. 5, for furnishing and installing electric light fixtures. Capt. William Weigel, Q. M.

FREEPORT, ILL.—The council has accepted the bid of the FREEPORT RY. LIGHT & POWER CO. to light the streets of this city for a period of five years. The bid was as follows: for furnishing 125 to 149 arc lights, inclusive, per year, $70 each; furnishing 150 to 174 arc lights, inclusive, per year, $67 each; for furnishing 175 to 200 arc lights ,inclusive, $64 per year each; for furnishing 60-c.p. incandescent lamps for street lighting purposes, 50 to 74 lamps, inclusive, $26 per year; for 75 to 100 lamps, inclusive, per year, $25.50 each.

OCONTO, WIS.—Bids are asked until 7.30 p. m., Feb. 6, for furnishing 50 arc electric lights of 2,000 c.p. each for a period of three years. J. Pocquette, S. G. Pelkey, G. W. Clayton, Com. on Electric Light.

WALES, WIS.—See under Buildings.

BELLEVILLE, KAN.—W. K. Palmer, Consult. Engr., 718 Dwight Bldg., Kansas City, Mo., has secured the contract for engineering services in connection with the proposed municipal electric lighting plant for Belleville.

LINCOLN CENTER, KAN.—W. K. Palmer, Consult. Engr., Kansas City, Mo., has been engaged as engineer in consultation with the firm of Burns & McDonnell, Hydraulic Engrs., to prepare plans and specifications for the municipal lighting plant at Lincoln Center. Plans and specifications are in course of preparation.

GRAND ISLAND, NEB.—Plans, specifications and estimates of cost have been prepared by W. K. Palmer, Consult. Engr., 718 Dwight Bldg., Kansas City, Mo., for a combined electric and water-works plant at Grand Island, Neb., together with a complete electric lighting system for this city.

RANDOLPH, NEB.—Council has let the following contracts for a lighting plant: to the MINNEAPOLIS STEEL & MACHINERY CO., Minneapolis, Minn., for an 80-HP. gas engine; to J. A. BORTENLANGER, Glenwood, Ia., for pole line and 50 K-W. generator, and to the GENERAL ELECTRIC CO., of Omaha, Neb., for 20 arc lamps.

GRAND FORKS, N. DAK.—Edward L. Healy, of Red Lake Falls, Minn., has applied for a franchise for the use of the streets to transmit electricity for power and lighting purposes. If granted, he will transmit the electricity a distance of 35 miles on a triple circuit, constructing a power house at Red Lake Falls supplied throughout with duplicate machinery.

KIRKWOOD, MO.—An election will be held on Feb. 17 to vote on the question of selling the municipal plant to the General Service & Improvement Co. for $8,000 in cash, the company assuming $17,000 bonds outstanding.

SPRINGDALE, ARK.—Plans, specifications and final estimates have just been completed for an electric lighting plant and lighting system for Springdale, Ark. W. K. Palmer, Consult. Engr., 718 Dwight Bldg., Kansas City, Mo., has prepared the plans and specifications and these are on file at his office in Kansas City for the examination of prospective bidders.

GUTHRIE, OKLA.—The Shawnee Gas Co. has purchased a site and will immediately begin the construction of a building for their plant.

WATONGA, Okla.—We are officially advised that the time for receiving bids for an electric light and water-works plant, noted on Jan. 11, has been extended to give the city time to advertise according to law. M. A. Earl, Muskogee, Ind. T., is Consult. Engr.

WYNNEWOOD, IND. T.—Bids are asked until Feb. 14 for the construction of a combination electric light and water-works system. J. O. Swingley, Mayor. W. P. Bullock, Engr.

GEORGETOWN, COLO.—We are officially informed that bids will be asked in March for construction work in connection with the electrical power plant to be built by the East Argentine Mining Co. near Kremmling. The transmission line will be 80 miles in length. Estimated cost, $400,000. M. Sidney is Mgr. at this city. Noted fully on Jan. 4.

COLORADO SPRINGS, COLO.—The Empire Water & Power Co., capitalized for $1,000,000, has been incorporated by local capitalists to utilize the waters of Fountain, Cascade and Fountain creeks in Ute pass, and will shortly begin construction work on two reservoirs in the pass. The power secured will be used for manufacturing, lighting and other purposes. The incorporators are: W. A. Otis, G. A. Taff, K. R. Babbitt, Henry Hine and S. E. Titus.

SANTA FE, N. MEX.—The Santa Fe Water & Light Co. will enlarge their reservoir and a new dynamo will be placed at once at the upper plant. The city plant will be increased from 75 to 600 HP. Two large boilers will be added and two generators will be placed in the plant.

SEATTLE, WASH.—The Seattle Electric Co. will erect a new power house at Georgetown soon, to cost $250,000. H. F. Grant is Mgr.

NORTH YAKIMA, WASH.—The Yakima Gas Co., of North Yakima, has purchased a site and will erect a plant to cost $50,000.

PORTLAND, ORE.—It is stated that the Portland General Electric Co. will build a $200,000 office building and make other improvements, including the reconstruction of the system, at an estimated cost of $1,000,000. H. W. Goode is Pres. and Mgr.

NAPA, CAL.—J. S. McDonald has been granted a franchise for an electric light and power system.

SAN DIEGO, CAL.—It is stated that the San Diego Consolidated Gas & Electric Co. will expend $100,000 in extensions and improvements. C. W. Wiggins is Ch. Engr.

SAN FRANCISCO, CAL.—It is stated that the GENERAL ELECTRIC CO., of Schenectady, N. Y., has been awarded the contract for the equipment of the Ocean Shore Ry. Co. and apparatus for ten sub-stations and a central power house.

HAYWARDS, CAL.—It is stated that the Suburban Electric Co. will erect a new plant here. J. W. Burge is Supt.

GLOBE, ARIZ.—A contract has been awarded by the Globe Electric Light & Power Co. to the WESTERN CONSTRUCTION CO. for a gas plant. Capacity, 150,000 cu. ft. per day.

SALT LAKE CITY, UTAH.—Jas. J. Chambers, of Salt Lake, City, Pres. and Mgr. of the Inter-Mountain Power Co., has stated that it is proposed to construct during the spring three hydro-electric power stations about 17 miles from Salt Lake City; probable cost of work proposed $500,000. Frank C. Kelsey, of Salt Lake City, is Engr.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

LAWRENCE, MASS.—We are informed that the subject of constructing a bridge across the Merrimac River at this place is being considered. A. D. Marble, Lawrence, is City Engr. J. P. Kane is Mayor.

FALL RIVER, MASS.—We are officially advised that a site has been selected for a new bridge across the Taunton Great River here. The new bridge will be for general highway use and will not be shared by the railroad, as is the present structure.

BOSTON, MASS.—Bids were opened Jan. 25 for the construction of a steel drawbridge, at Atlantic Ave., Boston, as follows: New Jersey Bridge Co., 949 Broadway, New York, $37,788; Boston Bridge Works, 47 Winter St., Boston, Mass., $44,250; New England Structural Co., 110 State St., Boston, Mass., $47,200; Pennsylvania Steel Co., Steelton, Pa., $48,249; Phoenix Bridge Co., 110 State St., Boston, Mass., $49,185; Berlin Construction Co., 131 State St., Boston, Mass., $49,850.

WESTPORT, CONN.—We are advised that the erection of a new bridge across the Saugatuck River, at State St., will soon be considered.

WATERLOO, N. Y.—We are officially advised that a committee has been appointed to consider the construction of a lift bridge across the Cayuga and Seneca Canal at Virginia St. Frederick L. Manning, Waterloo, is Chn. Com.

TROY, N. Y.—It is reported that a bridge will be erected across the Wyantskill River at Winter St. Plans are being drawn for a steel and concrete structure. E. L. Grimes, Troy, is Ch. Engr.

WOODBURY, N. J.—We are officially advised that bids will soon be advertised for a bridge here, the approach of which will be 62 ft. long, besides the draw. W. M. Carter, Woodbury, N. J., is Engr.

ALLEGHENY, PA.—It is reported that the Wabash Railroad Co. will erect a new bridge across the Allegheny River, at this place, at a cost of $1,000,000. A. O. Cunningham, St. Louis, Mo., is Ch. Engr.

HOYT, PA.—It is reported that E. B. Smith, of this place, will erect a new $10,000 bridge across the Wissahickon River at his country place.

WASHINGTON, D. C.—A bill has passed the Senate appropriating $5,000,000 for the construction of the memorial bridge across the Potomac River, at this city.

DANVILLE, VA.—It is stated that the bridge across the Dan River, near Milton, is now a certainty. J. P. Acree, Danville, Va., is interested.

SCOTTSVILLE, VA.—We are officially advised that the new steel bridge across the James River here will be erected. The structure will have four spans, each 150 ft. long, and will be 16 ft. wide. J. P. Blair, Scottsville, is Clk.

ATLANTA, GA.—Plans and specifications are on file at office of Engineering News, 220 Broadway, New York, for viaduct at Atlanta, Ga. Bids are asked until Feb. 19, as advertised in Engineering News.

BIRMINGHAM, ALA.—Bids will soon be advertised for the proposed bridge at Jaspers Ford, near here. The new structure will have four spans. P. S. Milner, Birmingham, Ala., is Engr.

CLARKSDALE, MISS.—Bids are asked by Board of Supervisors, of Coahoma County, until Feb. 5 for constructing steel bridge across Moores Bayou at Clarksdale, Miss.

COLFAX, LA.—The contract for constructing the bridge across Bayou Darro at this place was awarded to the GEORGE E. KING BRIDGE CO., of this city.

CHATTANOOGA, TENN.—We are officially informed that date for opening bids for the Eleventh St. bridge has been extended to Feb. 13, 2.30 p. m. A. L. Thomas, Chn. (Advertised, Engineering News.)

DICKSON, TENN.—The contract for erecting the bridge across Jones Creek at this place was awarded to the BELLEFONTAINE BRIDGE & IRON CO., of Bellefontaine, O. The new structure will be of steel, and will cost $2,669, exclusive of substructure.

COLUMBUS, O.—Plans have been completed for the proposed viaduct at Taylor Ave., in this city. Walter Braun, Columbus, is City Engr.

TOLEDO, O.—We are advised that the subject of a new bridge at Cherry St. is being agitated. Frank I. Consaul, Toledo, is Ch. Engr. The new structure will cost about $750,000.

FREMONT, O.—It is reported that the Lake Erie & Western Railroad Co. will erect a new bridge across the Sandusky River here. Samuel Rockwell, Indianapolis, Ind., is Ch. Engr.

SPRINGFIELD, O.—We are officially informed that a viaduct will be constructed across the Cleveland, Cincinnati, Chicago & St. Louis Railroad Co.'s tracks at South Limestone St., Springfield. Cost, about $250,000.

ENTERPRISE, IND.—Preliminary surveys have been made by the Chicago, Indiana & Eastern Railway Co. for the proposed bridge across the Ohio River at this place. W. C. Walker, Matthews, Ind., is Road Master.

RICHMOND, IND.—THE CENTRAL STATES BRIDGE CO., Indianapolis, Ind., has been awarded the contract for the construction of two bridges in Wayne County.

MUSKEGON, MICH.—We are advised that a new iron bridge will be erected across Ryerson Creek, at Wood St., in this place. C. S. Gamble, Muskegon, is City Engr.

PORT HURON, MICH.—Bids are asked by R. D. O'Keefe, Supt. Public Works, until 11 a. m., March 30, for bascule and counterbalance bridge, including plans and specifications. (Advertised, Engineering News.)

AURORA, ILL.—We are informed that the city will probably build bridges across the two channels of the Fox River, on Fox St., this year. The spans will be about 153 ft. each, with 60 ft. roadway and walks. It is possible that the bridges will be of reinforced concrete, two arches in each bridge. At the meeting of the council Feb. 5 a test vote will be taken. H. B. Douglas is Mayor.

DUQUOIN, ILL.—THE DECATUR BRIDGE CO., of Decatur, received the contract for the new bridge over the Beaucop River here. It will be 135 ft. in length.

DANVILLE, ILL.—It is reported that the Illinois Traction Co. will construct a new steel bridge over the Vermillion River, at a cost of $75,000.

PEORIA, ILL.—It is stated that plans have been completed for the McKinley bridge across the Illinois River here. The new structure will have four truss spans, each 142 ft. long. It will have a bascule or jack-knife draw, the span for the passage of river boats elevating to permit passage. The bascule span will be 141 ft. long. In addition, there will be four 80-ft. girders and five 40-ft. girders extending from the draw to the west shore. W. A. McCully, Peoria, is Asst. Engr.

LA CROSSE, WIS.—It is reported that a steel bridge will be built across the Root River, near Hokah.

WAUPACA, WIS.—Bids are asked by the Board of County Commissioners until 10 a. m., Feb. 7, for the construction of a concrete bridge across Little Wolf River.

The contract for erecting the stone arch bridge across the Waupaca River here was awarded to M. T. REMLET, Scandinavia, Wis.

MILWAUKEE, WIS.—We are officially advised that a resolution has been passed authorizing the advertising for bids for the construction of a bridge across the North Menominee Canal at Sixth St., Milwaukee. C. J. Poetsch is Ch. Engr.

SIOUX CITY, IA.—It is reported that the Chicago, Burlington & Quincy Railway Co. will erect a new bridge across the Missouri River here. W. L. Breckinridge, Chicago, Ill.; is Ch. Engr.

MINNEAPOLIS, MINN.—Bids are asked by Hugh R. Scott, County Auditor, until 11 a. m., Feb. 19, for reflooring bridge No. 261.

PLATTSMOUTH, NEB.—Bids are asked by W. E. Rosencrans, County Clk., until noon, Feb. 13, for constructing all bridges in Cass county during the year 1906.

KANSAS CITY, MO.—The contract for constructing the stone arch bridge across Sugar Creek, near the entrance of Fairmont Park, was awarded to J. W. KELLY, Kansas City, Mo. Cost, about $1,800.

HEMPSTEAD, TEX.—Efforts are being made to secure a new bridge across the Brazos River here.

SAYRE, OKLA.—The contract for erecting the bridge across the Washita River at this place was awarded to MITCHELL & PIGG, of Weatherford, Tex.

JACKSON, CAL.—Bids are asked by C. L. Culbert, County Clk., until 1 p. m., Feb. 5, for the construction of a steel bridge across Sutter Creek at Main St.

HAILEY, IDAHO.—Bids are asked by George A. McLeod, County Clerk, until noon, Feb. 20, for constructing two new bridges across Lost River, near Hailey, Idaho.

LONDESBORO, ONT.—Hullett Township Council will construct two bridges over the Maitland River this year, at estimated cost of $5,000 each.

TORONTO, ONT.—We are advised that the Consumers Gas Co., of this city, will build an overhead bridge from its premises to Parliament St.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

HOLYOKE, MASS.—The following contracts have been awarded for the construction of the $65,000 school building here: Superstructure was awarded to L. A. LA FRANCE; heating, to P. J. DONNELLY; plumbing, to SPURROW & McPIGUE, all of Holyoke, Mass. Bids are now asked for furnishings. E. A. Ellsworth, Holyoke, is Arch. E. J. Gorman is Chn. Com.

NEWPORT, R. I.—We are officially informed that revised plans will soon be ready for bids for the 5-sty brick, stone and marble hotel at Newport for G. H. Weaver. Bids, received recently, were too high. Luther C. Greenleaf, 101 Tremont St., Boston, Mass., is Arch.

NEW YORK, N. Y.—We are officially advised that plans and specifications will go out for bids about Feb. 2 for chapel for St. Peter's Episcopal Church, at 334 West 20th St., New York. W. B. Tuthill, 105 East 22d St., New York, is Arch.

NEW YORK, N. Y.—We are officially informed that plans are out for bids for the construction of Temple Israel, on 120th St. and Lenox Ave., New York. The new edifice will be two stories and basement, 90 × 100 ft., with a facade of Indiana limestone. Cost, $150,000. David P. Hays, 145 Broadway, New York, is Chn. Com. Arnold W. Brunner, 33 Union Square, New York, is Arch. Bids close about Feb. 8.

Bids are asked by Moses Herrman, Pres. Park Board, until 3 p. m., Feb. 15, for constructing boat-house in New York Zoological Park, Boro. of Bronx.

Bids are asked by Moses Herrman, Pres. Park Board, until 3 p. m., Feb. 8, for constructing addition to Metropolitan Museum of Art, Central Park and Fifth Ave., New York.

We are officially advised that owing to an error in specifications, no bids were received for additions to Public School No. 32, 357 West 35th St., New York.

NEW YORK, N. Y.—The contract for constructing the new Horse Exchange building at 61st and 62d Sts. and Broadway, New York, for the Tichenor-Grand Co. was awarded to the THOMPSON-STARRETT CO., 49 Wall St., New York. The new building will be six stories, 100 × 150 ft., brick and stone. Cost, about $400,000. Hill & Stout, 1123 Broadway, New York, are Archs.

Bids are asked by C. B. J. Snyder, Supt. School Bldgs., until 11 a. m., Feb. 5, for sanitary work and gas fitting of Public School No. 3, on Grove and Hudson Sts., Boro. of Manhattan. Bids are also asked for the general construction of additions to Public School No. 68, at 109 West 127th St., Boro. of Manhattan. Bids are also asked for additions to Public School No. 108, at 60 Mott St., Boro. of Manhattan. Bids are also asked for sanitary work and gas fitting of Stuyvesant High School, on 15th St., near First Ave., New York.

NEW YORK, N. Y.—Final plans for the Pennsylvania Railroad Co.'s terminal station on Seventh and Eighth Aves., between 31st and 32d Sts., New York, have been filed in the Building Department. The building will face 771 ft. on the streets and 433 ft. on the avenues. The construction will be brick, stone, granite and steel. The facades will be of ornamental granite, in classic design, decorated with a long colonnade. There will be an arcade and concourse on Seventh Ave., opening off the waiting room. The central part, occupied by the main waiting room, will be 155 ft. high, with an arched dome. Spacious restaurants and servants' quarters are provided for on the top floors. McKim, Mead & White, 160 Fifth Ave., New York, are Archs. Cost is $4,000,000.

We are officially informed that preliminary plans are in progress for a 16-story fireproof office building for Henry Corn, of 320 Fifth Ave., New York, at 341 Fifth Ave. Maynicke & Franke, 238 Fifth Ave., New York, are Archs.

NEW YORK, N. Y.—Bids were opened Jan. 29 for electrical equipment in Public School No. 65, at Forsyth and Eldridge Sts., New York, as follows: Commercial Construction Co., 1 Madison Ave., New York, $18,-950; Frederick Pearce Co., 20 Rose St., New York, $19,304; Reis & O'Donovan, 1123 Broadway, New York, $18,480; W. M. Sheehan & Co., 136 Liberty St., New York, $18,-350; Peet, McEnerney & Powers, 225 Fourth Ave., New York, $19,369.

The contract for constructing the garage at 177-179 East 73d St., New York, for the Automobile Realty Co., 55 Duane St., has been awarded to the MURPHY CONSTRUCTION CO., 5 East 42d St., New York. Charles F. Hoppe, 55 Duane St., is Arch.

The contract for the structural steel for the New York Club, 35th St. and Fifth Ave., New York, has been awarded to the PASSAIC STEEL CO., Paterson, N. J. H. J. Hardenberg, 1 West 34th St., New York, is Arch. Wells Bros., 160 Fifth Ave., are general contractors. Previously mentioned.

NEW YORK, N. Y.—The American Fine Arts Federation has appointed a committee, uniting the thirteen art societies of this city, for the consideration of the erection and establishment of a United Fine Arts building, the location of which has not yet been determined. Mr. John W. Alexander, 123 East 63d St., New York, representing the Society of American Artists, is Chn., and Grosvenor Atterbury, of 20 West 43d St., representing the New York Chapter of the American Institute of Architects, is Secy.

It is reported that a new club-house will be erected in the vicinity of 125th St. and Hudson River, New York, by the Motor Boat Club of America. E. R. Thomas, 71 Broadway, New York, is interested.

Plans have been completed for an annex to the Hotel Savoy, at 5 East 58th St., New York, for the Bretagne Co. It will be 25 × 92 ft., ten stories, brick and limestone to harmonize with the main building. Cost, $100,000. C. T. Mott, 35 West 31st St., New York, is Arch.

It is reported that H. A. Metz, Comptroller, will present at the next meeting of the Board of Estimate a proposition to erect a municipal building on the site of the old 69th Regiment Armory at Cooper Square.

NEW YORK, N. Y.—Bids are asked by C. B. J. Snyder, Supt. School Bldgs., until 11 a. m., Feb. 13, for additions to Public School No. 172, on 109th St., Borough of Manhattan. Bids are also asked for installing electrical equipment in Public School No. 71, on Sixth St., near Ave. B., Borough of Manhattan.

BROOKLYN, N. Y.—Bids are asked by C. B. J. Snyder, Supt. School Bldgs., until 11 a. m., Feb. 5, for the general construction of Public School No. 85, on Debevoise Ave., Boro. of Queens.

Bids were opened Jan. 29 for the construction of additions to Public School No. 30, at Conover St., as follows: Thomas McKeown, 521 West 110th St., New York, $176,843; H. M. Weed, 124 West 45th St., New York, $179,900; C. H. Peckworth, 415 Hudson St., New York, $182,445; G. F. Driscoll, 391 Fulton St., Brooklyn, $183,000; W. Werner, 892½ Forest Ave., New York, $185,800; George Hilderbrand, 38 Park Row, New York, $185,527; P. J. Walsh, 503 Fifth Ave., New York, $186,850; P. G. Carlin, 26 Court St., Brooklyn, $189,540.

TARRYTOWN, N. Y.—It is reported that a new $100,000 Y. M. C. A. building will be erected here.

WILLARD, N. Y.—Bids are asked by T. E. McGarr., Secy. State Commission of Lunacy, Albany, N. Y., until 3 p. m., Feb. 7, for constructing cold storage building, furnishing and installing refrigerating machinery, electric wiring and plumbing in "Grand View" Willard State Hospital, Willard, N. Y.

ROCHESTER, N. Y.—Bids are asked by T. E. McGarr, Secy. State Commission of Lunacy, Albany, N. Y., until 3 p. m., Feb. 7, for heating, plumbing and electrical work in North building, Rochester State Hospital, Rochester, N. Y.

PHILADELPHIA, PA.—Bids are asked until noon, Feb. 28, for the construction of a dwelling, oil-house, barn, etc., at Reedy Island Range Rear Light Station, Del. Major J. C. Sanford, Corps Engrs. (Advertised, Engineering News.)

NORRISTOWN, PA.—Bids are asked by the Building Committee, at the State Hospital for the Insane, until noon, Feb. 12, for the construction of a convalescent building for women. Baker & Dallett, Crozer Bldg., Philadelphia, are Archs.

PHILADELPHIA, PA.—Plans have been completed for the construction of a 6-story building for the Keystone Publishing Co., at 811 North 19th St., Philadelphia. The new building will be constructed of slow-burning brick. Size, 73 × 83 ft. Cost, $50,000. F. Mink, c/o Keystone Watch Case Co., is Arch.

PITTSBURG, PA.—We are officially informed that plans will soon go out for figures for the construction of a 4-story, fireproof hospital building for the Homeopathic Hospital. The new building will be 220 × 222 ft., of brick and stone. C. Emil Mueller, 411 Wood St., Pittsburg, Pa., is Arch.

PITTSBURG, PA.—The Secretary of War has approved the plans of the Baltimore & Ohio Railroad Co., for the construction of a $1,000,000 depot on the Monongahela River. This approval makes it possible for the company to straighten its tracks and not enter the city on a dangerous curve.

BALTIMORE, MD.—We are informed that plans have been completed for the erection of an office building for the Chesapeake Steamship Co., at Light and York Sts., Baltimore. Charles E. Cassell & Son, 411 North Charles St., Baltimore, are Archs.

WASHINGTON, D. C.—Bids are asked until 2 p. m., Feb. 28, for steel framing incident to construction of office buildings for House of Representatives and U. S. Senate and for fireproof floor construction. E. A. Hitchcock, Secy. Dept. of Interior. (Advertised, Engineering News.)

The Building Committee of the Dept. of Agriculture has awarded to A. A. SANBURN, Boston, Mass., contract for installing heating, ventilating and special piping system of two laboratory buildings of the Dept. of Agriculture, Washington, for $89,285. Bids were opened Jan. 5.

The Building Committee of the Dept. of Agriculture has awarded contract to the OTIS ELEVATOR CO., 17 Battery Place, New York, for installing six electric passenger elevators in the two laboratories for the United States Dept. of Agriculture, Washington, for $30,975, including safety appliance on all six. Bids were opened Jan.5.

The Building Committee of the Dept. of Agriculture has awarded contract to WATSON, FLAGG ENGINEERING CO., 27 Thames St., New York, for the installation of electric wiring and conduit system in two laboratory buildings for the Dept. of Agriculture, Washington, for $19,775. Bids were opened Jan. 5.

WASHINGTON, D. C.—Bids are asked by Elliott Woods, Supt. United States Capitol Building and Grounds, until 1 p. m., Feb. 28, for cast-iron soil and drain pipe and fittings therefor, to be used in connection with the plumbing work for the office building, United States Senate. (Advertised, Engineering News.)

VICKSBURG, MISS.—We are officially informed that the Mississippi Home Insurance Co., of this city, will erect a 10-story building at South and Washington Sts., Vicksburg. Henry K. Johnson, Vicksburg, is Vice-Pres.

FRANKLINTON, LA.—Bids are asked by the Police Jury of Washington parish until March 5, for the erection and completion of court-house at Franklinton, La. Andrew J. Bryan, 708 Huenn Bldg., New Orleans, La., is Arch.

NASHVILLE, TENN.—It is stated that plans are in progress for a new building for the Dept. of Science, of Fisk University, Nashville, Tenn. Dr. J. G. Merrill, Nashville, is Pres.

NEWARK, O.—We are officially informed that plans are completed and will go out for bids at once for the construction of a 10-story office building for Newark Trust Co., Newark, O. Richards, McCarty & Bulford, 63 The Ruggery, Columbus, O., are Archs. Bids close about Feb. 15.

ZANESVILLE, O.—Bids are asked by R. C. Burton, Chn. Com., until noon, Mar. 15, for the construction of church at Zanesville, O. Badgley & Nicklas, 1273 Euclid Ave., Cleveland, are Archs.

It is reported that a new $50,000 branch library building is to be erected on Fifth and North Sts., Zanesville.

TOLEDO, O.—The contract for erecting the Ohio building for the Ohio Building Co., of this city, was awarded to the H. J. SPIEKER CO., of Toledo. The new building will be twelve stories, brick and steel.

EVANSVILLE, O.—The Commissioners of Vanderburg county contemplate installing a modern electric passenger elevator in the court-house here.

BLUFFTON, IND.—It is reported that the Illinois Steel Co., of Chicago, will erect a new town near here, to be known as Corey, Ind., in honor of W. E. Corey, who is president of the company.

INDIANAPOLIS, IND.—We are informed that plans are in progress for a new office building for Frank Neesler & Co., on North Pennsylvania St., Indianapolis. H. L. Bass, Indianapolis, is Arch.

MADISONVILLE, IND.—Plans are in progress for a large tobacco warehouse to be built here. Bradley Wilson, Madisonville, is interested.

PRINCETON, IND.—It is reported that a site has been secured for the erection of an office building and theatre, for a company of foreign capitalists. George Kidd, c/o E. & P. Traction Co., is interested.

INDIANAPOLIS, IND.—Plans are in progress for the new bank and office building to be erected here for the Merchants National Bank. D. H. Burnham & Co., 1417 Railway Exchange Bldg., Chicago, Ill., are Archs.

CHICAGO, ILL.—Plans are in progress for an 16-story office building for the Chicago Telephone Co. It will be erected adjacent to the company's present building at a cost of $750,000.

CHICAGO, ILL.—Bids were opened January 23, by James Knox Taylor, Supervising Arch., Treas. Dept., for wrecking the temporary post office building, Chicago, Ill., as follows: S. Krug, Chicago, will pay $10,000, time 75 days; Garden City Wrecking & Lumber Co., Chicago, will pay $2,250, time 45 days; Carr Wrecking Co., Chicago, Ill., will pay $8,250, time 90 days; Zechman & Co., Chicago, will pay $5,555, time 90 days; Henry A. Krug, Chicago, (a) will pay $90, or (b) Government will pay $6,500, retaining lumber, etc., time 90 days.

The contract for erecting the addition to the Fisher Building at Dearborn and Van Buren Sts., was awarded to the THOMPSON-STARRETT CO., 49 Wall St., New York.

WALES, WIS.—We are officially informed that plans are in progress for the State Tuberculosis Sanitarium here. There will be an administration building, incorporated in which will be the infirmary, quarters for the officers, dining room and kitchen. There will be an isolated heating plant, pumping station and laundry building. C. H. Harper, Madison, Wis., is Secy. Bd. Health.

ST. PAUL, MINN.—We are officially advised that plans have been completed and are ready for bids for the construction of the main building for the Minnesota School of Agriculture here. Cost, $250,000. C. H. Johnston, 712 Manhattan Bldg., St. Paul, is Arch.

ST. LOUIS, MO.—The contract for constructing the 20-story office building for the St. Louis Real Estate Trust Co., here, was awarded to SAMUEL & BURDEN, 401 Commercial Bldg., St. Louis.

We are officially informed that tentative plans have been started for the second branch library building, on Union and Cabanne Aves., St. Louis. The plot is 127 × 150 ft. Complete cost will be $80,000. Maurran, Russell & Garden, 1620 Chemical Bldg., St. Louis, are Archs.

FORT SAM HOUSTON, TEX.—Bids are asked by L. J. Fleming, Q. M., until 11 a. m., Feb. 24, for the construction, plumbing, heating and electrical work for post hospital at Fort Sam Houston, Tex.

OTOE, OKLA.—Bids are asked by C. F. Larrabee, Asst. Comr., until 2 p. m., Feb. 24, for constructing brick laundry building and to remove, alter and repair employe's quarters at Otoe School, at Otoe, Okla.

SPOKANE, WASH.—Bids are asked by W. I. Hinckley, Secy., until noon, Feb. 14, for the construction of armory building on McClelland St. and Second Ave., Spokane, Wash. Preusse & Zittel, 517 Jamieson Bldg., Spokane, Wash., are Archs.

SEATTLE, WASH.—Plans have been completed for a new building for the House of the Good Shepherd, at 50th Ave. North, in Fremont. It will be five stories and basement, and will cost about $75,000. Bucklinger & Breitung, Walker Bldg., Seattle, are Archs.

PORTLAND, ORE.—See under Light and Power Plants.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

STOCKTON SPRINGS, ME.—The Stockton Springs Water Co. has been incorporated to build a gravity water system in this place. C. N. Taylor, Wellesley, Mass., is Treas. and Engr.-in-Charge.

FARMINGTON, ME.—Village has voted to extend its water system by taking its supply by the gravity system from Varnum Pond and bonds will be issued to cover the cost, estimated at $30,000.

WOODSVILLE, N. H.—We are informed that the question of water-works is being considered for a population of 2,000. C. P. Barney is interested.

BOSTON, MASS.—The following bids were received Jan. 25 for furnishing the city of Boston with iron castings: John A. Hayes Foundry Co., $2 per cwt.; Libby Foundry Co., $1.80; The Sessions Foundry Co., $1.69.

NORTH CHELMSFORD, MASS.—A bill has been presented to legislature providing for a water system in this town in connection with the water system of Lowell. It is estimated that cost of construction will be $25,000. James Dunnigan, Selectman, is interested.

EDGARTOWN, MASS.—It is stated that a bill has been introduced in legislature providing for the incorporation of the Edgartown Water Co. to build a water system for this town.

PROVIDENCE, R. I.—We are officially informed that contracts were awarded on Jan. 24 for laying a 42-in. water main from Sockanosset Reservoir to the city, as follows: Sec. 1 to FRANK A. GAMMINO, Providence, R. I.; Sec. 2 to BRUNO, SALOMONE & PETITTI, East Boston, Mass. Sec. 3 to FREDERICK E. SHAW, Providence, R. I.; Sec. 4 to CHARLES CRANKSHAW, Providence, R. I. The city ordinances forbid the disclosure of prices until after the execution of the contracts. Herbert E. Wood is Secy. Dept. Pub. Works.

ALBANY, N. Y.—Bids are asked until 3 p. m. Feb. 5 for two high duty pumping engines to be erected at Quackenbush St. pumping station. Isidore Wachsman, Clk. Bd. Contract and Supply.

NEW YORK, N. Y.—W. C. Cozier, Deputy Comr. Water Supply, Gas and Electricity is reported to have decided upon the installation of 1,000 new hydrants in Brooklyn, and bids will be asked in a short time.

NEW YORK, N. Y.—Bids are asked until 2 p. m., Feb. 7, for furnishing tapping and waste cocks, drills, nozzles, handles, screws and bridges. W. B. Ellison, Comr. Water Supply, Gas and Electricity.

BROOKLYN, N. Y.—The board of estimate has authorized an appropriation of $500,000 for the maintenance and extension of the water supply of this city. W. B. Ellison is Comr. Water Supply, Gas and Electricity.

WATERVLIET, N. Y.—A water system to cost about $250,000 is being considered by this city. It is proposed to bring the water from Crescent, a distance of seven miles, in 20-in. pipe. F. B. Durant is Water Comr.

LYON FALLS, N. Y.—We are officially informed that the state board of water supply has taken up the matter of constructing a water system here. Frank Hoskins is Village Pres.

SANDY HOOK, N. J.—Plans and specifications for construction of water-works extensions at Fort Hancock, N. J., are on file at office of Engineering News. Bids are asked until Feb. 10, as noted on Jan. 18.

ERIE, PA.—City is contemplating the erection of a filtration plant upon completion of the intake. B. E. Briggs is City Engr.

CHESTERTOWN, MD.—T. W. Eliason, F. G. Usilton and J. D. Bacchus have purchased the property of the Chestertown Water Co. and will make improvements to the plant at once.

WASHINGTON, D. C.—The Secretary of the Interior has set aside from the reclamation fund the sum of $450,000 to be used in connection with the $550,000 already allotted for pumping projects in North Dakota, for initial installation on the Nesson, Williston, and Buford-Trenton projects, upon several conditions.

RICHMOND, VA.—$20,000 has been appropriated to construct a filtration plant which will furnish the city with 1,000,000 gallons of water per day. W. E. Cutshaw is City Engr.

RIVERSIDE PARK, VA. — S[illegible]ifications are on file at office of Engineeri[illegible] News for the extension of the water distr[illegible]ion system at Fort Washington, Va. Bi[illegible] are asked until Feb. 16, as noted on Jan. [illegible]

ANDERSON, S. C.—The Ande[illegible] Water Light & Power Co. has engage[illegible] Henry E. Knox, Jr., Engr., to prepare [illegible] for a new water station in the eastern [illegible]t of the city. R. T. Long is Supt.

BUENAVISTA, GA.—We are o[illegible]ally informed that bonds for a water [illegible] have been sold and the town will inst[illegible]m have name in near future. The mayor can inf[illegible]

CINCINNATI, O.—It is stated [illegible] that bids will be asked until about Feb. [illegible] for the generating machinery in the ea[illegible] pump-ing station. A. Herrman is Pres. [illegible] Water-Works Trustees.

TOLEDO, O.—Bids are asked u[illegible] Feb. 7 for furnishing 500 tons of 4, 6, 8 [illegible]d 12-in. cast iron pipe, with specials, for [illegible] water-works. F. I. Consaul, Ch. Engr. [illegible] Pub. Service.

LAWRENCE, IND.—Bids are [illegible] until 11 a. m. Feb. 24 for constructing [illegible]ater distributing system, 200,000-gallon [illegible]einforced concrete reservoir, 300,000-gallon [illegible]el tank and trestle, boilers, feed pumps, [illegible]jectors, air compressors, pumps, condens[illegible] piping, etc, and piping for wells. Capt. [illegible] B. F. Cheatham, Const. Q. M.

WATERVLIET, MICH.—Town will vote on issuance of $15,000 of bonds for water-works system in a short time.

ROCK ISLAND, ILL.—Bids are asked until 5 p. m., Feb. 12, for the construction of an addition to the water-works building. H. C. Schaffer, City Clk.

ST. CHARLES, ILL.—We are officially informed that the following contracts have been awarded for the construction of a water system to J. B. CLOW & SON, Chicago, Ill., for pipe, at $28.70 per ton; special castings at $60 per ton; hydrants at $25; 6-in. valves at $12 each; 10-in. valves at $26.50 each; valve boxes at $3.75, and for flexible-joint pipe for river crossing at $38. To J. J. LYNCH, Chicago, Ill., for laying and connecting pipe lines and hydrants, 6-in., 31 cts.; 10-in., 42 cts.; 4-in., 27 cts., and $2.00 for rock work. To the CHICAGO BRIDGE & IRON CO., Chicago, Ill., for tower and tank, at $5,980. To A. B. BELL, this city, for drilling wells, all rock, at $2 per ft. Henry Roehlk is Secy. Bd. Local Improvements.

NORMAL, ILL.—Bids are asked until 6 p. m. Feb. 5 for laying water main in Hester Ave. E. J. Metcalf, Pres. Bd. Local Improvements. J. G. Melluish, Engr., Unity Bldg., Bloomington, Ill.

PARKRIDGE, ILL.—Bids are asked until 8 p. m. March 6, for the construction of a 100,000-gallon water tank. C. M. Miller, 34 South Clark St., Chicago, Ill.

PEKIN, ILL.—George H. Lucas, of this city, writes us that he desires to correspond with persons willing to construct a water-works system to supply a town of 10,000 inhabitants on the franchise plan.

BOVEY, MINN.—The village council has decided to establish a municipal water-works system.

TONGANOXIE, KAN.—The city has voted in favor of issuance of $15,000 of bonds for the construction of a water system.

GRAND ISLAND, NEB.—See under Light and Power Plants.

BISMARCK, N. DAK.—We are informed that the address of William Tunny, who received the contract for constructing water main at Fort Lincoln, N. Dak., is Joliet, Ill., and not Peoria, Ill., as mentioned on Jan. 18.

MEETEETSE, WYO.—Bonds have been sold for the construction of a water-works plant.

CHILLICOTHE, MO.—It is proposed to issue $100,000 of bonds for water-works construction.

JACKSON, MO.—Specifications and bidding sheet are on file at office of Engineering News, New York, for construction of a complete water and light plant. Bids are asked until Feb. 19, as noted on Jan. 25. (Advertised, Engineering News.)

SHERMAN, TEX.—Bids are asked until Feb. 19, for the construction of a steel standpipe. Henry Zimmerman, City Clk.

HARLINGEN, TEXAS.—Bids are asked until March 1 for the complete installation of machinery for a steam-driven, electric-transmission pumping plant for irrigation services. Specifications are on file at office of Engineering News. American Rio-Grande Land & Irrigation Co. ,Chester B. Davis, Engr. (Advertised, Engineering News.)

WYNNEWOOD, IND. T.—See under Light and Power Plants.

DENVER, COLO.—Contract for pipe and fittings in the new pumping station at City Park, has been awarded to MINE & SMELTER SUPPLY CO., at $5,588.

FORT COLLINS, COLO.—The Water Supply & Storage Co. will construct two reservoirs, one at Black Hollow, twelve miles from this city, with capacity of 200,000 cu. ft., at a cost of $40,000, and another at a point in the mountains on the south branch of the Cache la Poudre River. A. A. Edwards, of this city, is Pres.

ALBUQUERQUE, N. MEX.—Council has voted to submit question of issuance of bonds for purchase of water-works to citizens for decision. Pitt Ross is City Engr.

CENTRALIA, WASH.—A committee has been appointed to consider water-works improvements. J. E. Lease is interested.

TACOMA, WASH.—According to press reports the city must improve its water supply system at a cost of $2,000,000 by providing a gravity water supply from either Green or Greenwater Rivers, 30 to 35 miles east of Tacoma. Some 13 years ago the city purchased a water system from Charles B. Wright of Philadelphia, who founded this city. The price paid was $1,750,000. The city raised $330,000 more on water exten-

sion bonds, most of which were lost when the banks failed during the panic. The present sources of supply comprise springs in the gulches south of the city. Clover creek running through farms south of the city, and the airlift wells at South Tacoma. The engineers who have investigated the matter are said to have reported that it will cost nearly $2,000,000 more to bring in water by gravity from the mountains, together with laying 49 miles of pipe.

SEATTLE, WASH.—Bids for the steel stand-pipe and masonry casing to be constructed in Volunteer Park will be opened by the board of public works about Feb. 3. The estimated cost of this work is about $60,000.

Ordinances have been passed by council providing for expenditure of $39,000 for water mains. R. H. Thomson is City Engr.

LOS ANGELES, CAL.—It is stated that the Conservative Realty Co., of this city, will extend its water mains for a distance of ten miles. W. W. Pedder is Secy. and Mgr.

GRASS VALLEY, CAL.—City trustees have decided to extend water system and lay larger mains.

SUISUN, CAL.—The Pacific Portland Cement Co. has prepared plans for a pumping plant and steel tank, 50 × 30 ft., at its factory here.

STOCKTON, CAL.—It is stated that the Stockton Water Co. will expend $300,000 in improvements to their pumping plant and distributing system.

AMHERST, N. S.—Snow & Barbour, Engrs., 1120 Tremont Bldg., Boston, Mass., are reported to have submitted an estimate of about $400,000 as the cost of a gravity water system from the Maccan River.

WOODSTOCK, ONT.—We are officially informed that the water and light commission of this city will ask shortly for bids for the construction of a reinforced concrete reservoir 100 ft. in diameter, 30 ft. high. G. C. Eden is Secy.; F. J. Ure is City Engr.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

BEVERLY, MASS.—It is reported that this city is considering the matter of spending $300,000 to enlarge its sewer system. Wm. J. Berry is City Engr.

MILFORD, MASS.—D. W. Pratt, representing E. W. Bowditch, 60 Devonshire St., Boston, Mass., is preparing plans for a sewer system in this town, it is reported.

WINCHENDON, MASS.—A committee has been appointed to present a bill to the legislature providing for a sewer system in this town. William M. Whitney is interested.

HARTFORD, CONN.—We are officially informed that bids will not be asked for construction of the New Britain Ave. sewer until about March 1. F. L. Ford is City Engr.

NEW YORK, N. Y.—Contract for constructing sewers in 192d and other streets was awarded to W. J. BRENNAN, 759 East 173d St., New York, at $83,102. Other bidders on this work were: W. J. Ford, 17 West 103d St., $128,938; George J. Bailey, 1144 Fulton Ave., Brooklyn, $107,822; Cullgin & Pace Construction Co., 787 Tremont Ave., $106,695; J. J. Hart Co., 173d St. and Broadway, $117,476; Briggs & McLaughlin, 19 East 130th St., $96,367; Burns & Rodgers, 1909 Amsterdam Ave., $100,911; C. W. McDonald, 767 Tremont Ave., $88,267; M. J. Leahy, 1446 Prospect Ave., Brooklyn, $101,955. Bidders all of New York unless otherwise specified. The contract for sewers in various streets in the Borough of Bronx was also awarded to W. J. BRENNAN, at $25,699. The bids on both contracts were opened Jan. 23.

NEW YORK, N. Y.—Bids are asked until noon, Feb. 13, for constructing sewers in various streets in the Borough of Richmond. George Cromwell, Boro. Pres.

MENANDS (post-office Albany), N. Y.—Bids are asked until Feb. 10 for repairs to the sewers and drains in the 15th School District. John A. McMahon, Pres. Bd. Sewer Comrs.

ALTOONA, PA.—We are officially advised that bids will be asked in April for constructing an 800-ft. section of reinforced concrete storm sewer, at an estimated cost of $16,740. Harvey Linton is City Engr.

WASHINGTON, D. C.—Bids are asked until 10 a. m., Feb. 6, for furnishing terra cotta sewer pipe at the Navy Yard, Norfolk, Va. H. T. B. Harris, Paymaster Gen'l, U. S. N.

LEXINGTON, N. C.—We are officially advised that the time for receiving bids for a sewer system, noted on Jan. 4, has been extended to Feb. 22. (Advertised, Engineering News.)

WAYCROSS, GA.—See under Railways; Atlantic Coast Line Ry.

SAVANNAH, GA.—Plans and specifications are on file at office of Engineering News, 220 Broadway, New York, for the construction of an addition to the sewage disposal plant at Fort Oglethorpe. Bids are asked until Feb. 6, as noted on Jan. 18.

JACKSONVILLE, FLA.—It is stated that bids are asked until March 5 for constructing cast-iron and terra cotta sewers and brick and terra cotta drains. B. F. Dillon, Chn.

CINCINNATI, O.—Bids are asked until Feb. 16 for the construction of a box culvert in Miami township. C. C. Richardson, County Audr.

CLEVELAND, O.—The following are the bids opened on Jan. 9 for constructing a sewer on Storer Ave.: William Lehman, $18,945; A. F. Helm, $20,597; Chris. Burkhardt, $20,647; James Duff Construction Co., $20,760; H. & O. Paving & Construction Co., $20,681; W. J. Townsend Co., $20,841; August Wagner, $21,157; R. B. Burnett, $21,307, and Reserve Construction Co., $21,327.

LAWRENCE, IND.—Bids are asked until 11 a. m., Feb. 24, for the construction of a sewer system and sewage purification plant. Capt. B. F. Cheatham, Constr. Q. M.

JOLIET, ILL.—Specifications will be ready about April 15 for tile sewers, to be constructed throughout city. Cost, $100,000. H. A. Stevens is City Engr.

NORMAL, ILL.—Bids are asked until 6 p. m., Feb. 5, for constructing a sanitary sewer. E. J. Metcalf, Pres. Bd. Local Improvements. J. G. Melluish, Engr., Unity Bldg., Bloomington, Ill.

WAUKEGAN, ILL.—M. K. Miller, City Engr., is preparing specifications for five miles of vitrified pipe sewers and four miles of 60 × 24-in. concrete sewer, it is stated.

BELLEVILLE, ILL.—See under Streets and Roads.

ATLANTIC, IA.—We are officially advised that the contract for constructing sewers in this city was awarded to DUNNEGAN, COREY & BRIGGS, Shenandoah, Ia., at $16,138. Bids were opened Jan. 23. J. J. Rapp is City Clk.

BURLINGTON, IA.—According to official advices, resolutions ordering construction of about 12,000 ft. of sewers of various diameters will be voted upon March 5, and bids probably will be asked for same about March 25. William Steyh is City Engr.

STORM LAKE, IA.—Contracts for the proposed sewer system in this town probably will not be let for 60 days, according to official information. Iowa Engineering Co., Clinton, Ia., is Engr.

MARIANNA, ARK.—Bids are asked until Feb. 12 for the purchase of $26,000 of bonds for sewer improvements. E. W. King, Secy. Max D. Miller, Chn. Bd. Sewerage Comrs.

OMAHA, NEB.—Andrew Rosewater, City Engr., is reported to be preparing plans, which call for the expediture of $150,000, for sewers during the present year.

KANSAS CITY, MO.—E. A. Harper, City Engr., has prepared plans for a large sewer to replace O. K. Creek. It will be 6,000 ft. in length, reinforced concrete, and will cost about $400,000.

GALVESTON, TEX.—It is stated that a contract for constructing a concrete drain was let to E. G. TRUEHEART, at $14,725, and J. C. KELSO received the contract for a vitrified pipe drain, his bid being $8,249.

SPOKANE, WASH.—Charles McIntyre, City Engr., is preparing plans for a main trunk sewer with 29 lateral sewers in the First Ward.

LOS ANGELES, CAL.—It is reported that the contract for constructing a storm sewer in North Sixth St. was let to the HALL CONSTRUCTION CO., at $12,300, and the ALSOP ENGINEERING & CONSTRUCTION CO. received the contract, at $4,557, for a sewer in Westmoreland Place.

CLOVERDALE, CAL.—Bids are asked until 8 p. m., Feb. 27, for the construction of a sewer system. George W. Coe, Pres. Bd. of Trustees.

FREDERICTON, N. B.—We are officially advised that the following contracts have been awarded, for which bids were opened Jan. 22: For vitrified pipe, to HYDE & WEBSTER, Montreal, Que., at $14,497; for manhole frames, etc., JAMES FLEMING, St. John, N. B., at $2,041; for cast iron pipe and specials, the MONTREAL PIPE FOUNDRY CO., at $809.

TORONTO, ONT.—Bids are asked until March 6 for the construction of a sewer system in territory east of Woodbine Ave. Emerson Coatsworth, Mayor and Chn. Bd. Control. (Advertised, Engineering News.)

GARBAGE DISPOSAL.

The names of parties awarded contracts are printed in capital letters.

BIRMINGHAM, ALA.—John McCartin Street Comr., has recommended the construction of a crematory for trash disposal.

DETROIT, MICH.—Council has awarded a 10-year contract to the DETROIT REDUCTION CO. for garbage disposal. The company will erect a reduction plant in a short time.

BLOOMINGTON, ILL. — LEWIS & KITCHEN, 433 Wabash Ave., Chicago, are reported to have secured the contract for constructing a garbage crematory here, at $12,905. Plant will be erected this spring.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—Bids were received Jan. 30 by the Massachusetts Highway Commission for surfacing a section of state highway in Lynn, and contract was awarded to R. F. HUDSON, Melrose, Mass., at $22,944.

LYNN, MASS.—A petition has been presented to legislature for the construction of a 70-ft. boulevard from Revere to this city, at a maximum cost of $100,000. T. W. Gardiner, Pres. Bd. of Trade, is interested.

NIAGARA FALLS, N. Y.—Bids for the paving of Eleventh St. and Highland Ave. were opened Jan. 16 as follows: Warren Bros., bitulithic macadam, $2.37; Interstate Paving Co., asphalt block, $2.50; Barber Asphalt Co., solidad asphalt $1.82, Trinidad asphalt $2.19, bitulithic macadam $2.12; H. P. Burgard, California asphalt $1.83, brick $2.20; J. F. Spiker, fire clay block $2.28, Jamestown block $2.28, brick $2.25.

OSWEGO, N. Y.—A contract for macadamizing two streets has been awarded to JOHN HENRICK, at $1.13 per sq. yd.

ROCHESTER, N. Y.—It is proposed to expend about $230,000 in street improvements. Edwin A. Fisher is City Engr.

NEW YORK, N. Y.—Bids are asked until 2 p. m., Feb. 7, for repairing sidewalks and curbing. W. B. Ellison, Comr. Water Supply, Gas and Electricity.

NEW YORK, N. Y.—We are officially informed that the contract for paving and grading Lawrence Ave., Boro. of Bronx, has been let to ALEXANDER S. TRAUB, 215 West 125th St., New York, for $20,465; and the contract for similar work in Findlay Ave. was awarded to MANCINI & PALLADINO, 226th St. and White Plains Ave., New York, at $34,682. Other bidders on the latter were: J. C. Voorhis, $41,244; Troy Public Works Co., $43,465; P. J. Kane, $42,004; George Smith, $45,535; Uvalde Asphalt Paving Co., $43,957; Harduven Schloss Constructing Co., $41,961; A. G. Vermilye, $38,000; D. W. Moran, $36,424; Cunningham & Kearns, $38,022; T. T. Murray, $44,315; George J. Bailey, $40,721; C. W. Collins, $40,000; George L. Brown, $38,016; Frank Del Balso, $37,164; Burns & Rodgers, $39,610.

NEW YORK, N. Y.—It is proposed to establish and lay out a park about Grant's tomb on Riverside Drive, and take all the land from 116th St. to 122d St., between Claremont Ave. and Riverside Drive. The estimated cost is nearly $3,000,000.

NEW YORK, N. Y.—Bids are asked until noon, Feb. 13, for paving a section of Nicholas St. with brick. George Cromwell, Pres. Boro. Richmond.

JERSEY CITY, N. J.—JOHN NOLAN, 108 Bergen Ave., this city, has been awarded the contract for macadamizing a number of streets in Greenville at 90% of standard of cost. The contract for improving Delaware Ave. has been let to the BARBER ASPHALT CO., 17 Battery Place, New York, at 91% of standard of cost.

WILMINGTON, DEL.—Council has been asked to appropriate $50,000 for street improvements.

BALTIMORE, MD.—The board of awards has awarded a contract for granite blocks to P. FLANIGAN & CO., at $96.66 per 1,000.

A bill for paving Baltimore city and authorizing a loan of $5,000,000 and providing for the appointment of a commission of three has been introduced in the Senate of the Maryland Legislature by Senator J. Charles Linthicum. The commission is to be named by the Mayor and the bill provides for the Buffalo system, under which the city pays for the paving of the cross streets and the abutting property holders for two-thirds of the other cost in instalments. The commission is to adopt plans, employ chief engineer and other needed assistants. Not more than $1,000,000 of the loan is to be issued in any one year. B. T. Fendall is City Engr.

SPARTANBURG, S. C.—According to local press reports, it is the intention of the council to advertise for bids for street paving about the first of February. John Floyd is Mayor.

WAYCROSS, GA.—See under Railways; Atlantic Coast Line Ry.

MONTGOMERY, ALA.—THE BYRON-SOUDERS CO., of Atlanta, Ga., is reported to have received the contract for paving various streets, at $14,819.

SHREVEPORT, LA.—The improvement committee of the council has recommended that the council accept the bid of the Cleveland Trinidad Paving Co. of $2.17 for paving six streets with asphalt and $2.14 for paving two streets with Pittsburg or Thurber brick. Other bids were as follows: Ratcliffe & Gibson, St. Joseph, Mo., $2.29½ per sq. yd. for Pittsburg blocks; Barber Asphalt Paving Co., Land Title Bldg., Philadelphia, Pa., $2.19 per sq. yd. for asphalt; the Southern Bitulithic Paving Co., Nashville, Tenn., brick, with Portland cement foundation, $2.23 per sq. yd.; sheet asphalt and brick, $2.09; bitulithic, $2.35. The estimated cost of the work is about $40,000. J. M. Dortch is City Engr.

NASHVILLE, TENN.—W. W. Southgate, City Engr., has been instructed to prepare plans and estimates for paving a number of streets. $134,788 are said to be available for improvement purposes.

CAMBRIDGE, O.—It is stated that council has passed ordinances for improving several streets with approximately 50,000 sq. yds. of asphalt and brick paving. Estimated cost, $109,291. Work will be advertised about the latter part of March. O. M. Hoge is City Engr.

MARION, O.—We are officially informed that an ordinance to pave Bradford St. with asphalt has been passed by council. Ordinances providing for about 20,000 sq. yds. of similar paving will be voted on about Feb. 5. George E. Dwyer is City Engr.

CINCINNATI, O.—Bids are asked until noon, Feb. 9, for furnishing crushed stone on Mt. Airy road. C. C. Richardson, County Auditor.

DELAWARE, O.—Bids are asked until noon, Feb. 12, for macadamizing several streets. F. D. King, Clk. Bd. Pub. Service.

MICHIGAN CITY, IND.—H. M. Miles, City Engr., has submitted estimates for paving Elston and Baltimore Sts., at a cost of $48,000.

PRINCETON, IND.—It is stated that contract for constructing 12,000 lin. ft. of rock road was let to S. R. ADAMS for $10,786, and REAVIE & WAROCK were awarded the contract, at $5,913, for 2,100 ft. of similar work.

SHELBYVILLE, IND.—Bids are asked by city council until 7.30 p. m., Feb. 6, for paving public square and five streets with bitulithic.

PETERSBURG, IND.—Plans are being made for the construction of 25 miles of free gravel road in Pike county. Bids will be asked by the county commissioners after plans are completed.

DANVILLE, IND.—Bids are asked by David D. Mills, County Audr., until 2 p. m., Feb. 5, for the construction of 37,033 ft. of free gravel road.

SULLIVAN, IND.—Bids are asked by the county commissioners until noon, Feb. 6, for the construction of 23,015 ft. of stone road in Hamilton township and 4,408 ft. in Curry township.

BRAZIL, IND.—Bids are asked by County Commissioners until 11 a. m., Feb. 9, for the construction of gravel roads in Jackson and Van Buren townships, 3¼ miles long, and a gravel road on the Clay and Park county line, 15,700 ft. long.

WINAMAC, IND.—Bids are asked by the County Commissioners until noon, Feb. 6, for the construction of twelve miles of road in Franklin township.

DETROIT, MICH.—It is stated that the contract for paving with cedar four streets was let to the MICHIGAN CONTRACTING CO., at $53,455, and FERDINAND PORATH & SONS were awarded the contract for paving one street for $21,036.

DETROIT, MICH.—We are officially informed that the Michigan Contracting Co. was lowest bidder for paving 12,337 sq. yds. with cedar block on concrete foundation, at $24,579. Bids were opened Jan. 19.

FLINT, MICH.—The preliminary steps for the paving of Detroit St. next spring have been taken. The city engineer will submit an estimate of the cost, with specifications.

PONTIAC, MICH.—Clancy & Ross, Ann Arbor, Mich., are reported to have been lowest bidders for paving East Saginaw St., at $16,943.

RED JACKET (post-office Calumet), MICH.—Bids are asked until 8 p. m., Feb. 15, for paving various streets. N. F. Kaiser, Village Clk.

GRAND RAPIDS, MICH.—We are officially informed that Stocking St. has been ordered paved with brick, and bids for same will be asked some time in February. L. W. Anderson is City Engr.

GRANITE CITY, ILL.—It is reported that bids will be asked in early spring for about one mile of brick paving, for which Edmund Hall, City Engr., is preparing plans. Estimated cost, $30,000.

BELLEVILLE, ILL.—It is stated that L. L. Harper, City Engr., has prepared plans for paving and sewer work in various streets to cost about $270,000.

LINCOLN, ILL.—Ordinances have been passed providing for the paving of three streets, at a cost of $16,000.

WAUKEGAN, ILL.—Bids are asked until 8 p. m., Feb. 2, for paving several streets. W. S. Bullock, Pres. Bd. Local Improvements.

GREEN BAY, WIS.—We are officially informed that bids will be asked, probably in March, for 38,000 sq. yds. of asphalt paving and 11,500 sq. yds. of vitrified block paving. W. W. Read is City Engr.

MINNEAPOLIS, MINN.—Bids are asked until Feb. 23 for resurfacing 100,000 sq. yds. with asphalt. Andrew Rinker, City Engr.

Bids are asked until Feb. 23 for furnishing the following material for paving work for 1906: cedar blocks, sandstone blocks, creosoted blocks, vitrified blocks, crushed limestone, crushed granite, granite surb, sandstone curb. Andrew Rinker, City Engr.

ST. CHARLES, MO.—This city contemplates cutting through hill on Adams St. and grading and macadamizing street. Approximate cost, $14,000. Carr Edwards is City Engr.

HOUSTON, TEX.—Bids are asked until Feb. 14 for paving about 3½ miles on two roads. J. B. Ashe, County Auditor.

SEATTLE, WASH.—Ordinances have been passed providing funds for the improvement of various streets, as follows: Concrete sidewalks, $32,270; grading, $35,890; paving, $30,500.

SEATTLE, WASH.—The contract for paving Railroad Ave. was awarded to O. E. ALLEN & CO., at $9,140.

SPOKANE, WASH.—Root & Biegle were lowest bidders for cement sidewalks on North Crescent Ave. and Peter Costello for similar work on Fifth Ave., at $2,670.

SAN FRANCISCO, CAL.—The contract for paving Minna St. with basalt blocks was awarded to A. B. CLUTE, for $8,000.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

PEABODY, MASS.—The American Decreasing Co. has been incorporated with a capital of $50,000. It is reported that the company will erect a new plant. Construction not decided. Arthur J. Mulholland, Peabody, Mass., is Secy.

FALL RIVER, MASS.—The New England Cotton Yarn Co., of this city, is reported to be considering extensive additions to its present plants in this city or Taunton.

WORCESTER, MASS.—We are officially informed that plans are in progress for extensive additions to the plant of the American Steel & Wire Co., Worcester, Mass. C. Marshall, Worcester, is Mgr.

BRIDGEPORT, CONN.—The contract for erecting the new factory building for the Electric Cable Co., of this city, was awarded to CASPER RANGE, of Holyoke, Mass.

HARTFORD, CONN.—Plans have been completed for an addition to machine shop for the Pratt & Whitney Co. The addition will be six stories, 72 × 300 ft., brick. Cost, about $100,000. Wilson, Harris & Richards, Drexel Bldg., Philadelphia, Pa., are Archs.

PHILADELPHIA, PA.—The contract for erecting the laundry building for Eshleman & Craig, at 20th St., has been awarded to R. C. BALLINGER & CO., 218 North 13th St., Philadelphia.

PHILADELPHIA, PA.—We are officially advised that plans are nearing completion for a new printing plant, at Race and Hutchinson Sts., Philadelphia, for George F. Lasher. The new building will be six stories, brick construction. Charles Balderston, 411 Walnut St., Philadelphia, is Arch.

ERIE, PA.—The Ball Engine Co. contemplates erecting a brick addition to its plant in this city.

ALLENTOWN, PA.—It is reported that the Traylor Manufacturing & Constructing Co., of this city, will expend about $50,000 in improving its plant here.

BELLE VERNON, PA.—We are advised that the Perry Manufacturing Co., of this place, has plans in progress for a new brick plant here. C. F. Eggers, Belle Vernon, is Pres. J. F. Torrence, Newhaven, Pa., is Secy.

ALLENTOWN, PA.—It is stated that a 3-story addition will be erected to the American Shoe Manufacturing Co.'s plant at Twelfth and Maple Sts. A 5-story building, 40 × 110 ft., will also be erected on the adjoining lot. Davis Paff is Pres.

PITTSBURG, PA.—Plans have been completed for a light manufacturing building for Henry Phipps, Bessemer Bldg., Pittsburg, on Duquesne Way. The new building will be 14 stories, 180 × 110 ft., of brick, stone and steel. Grosvenor Atterbury, 20 West 43d St., New York, is Arch.

WILMINGTON, DEL.—The contract for erecting the new shops for the Harlan & Hollingsworth Corporation, of this city, was awarded to TATNALL, BROWN & CO., of Wilmington, Del. The shops will be one story, lantern, roundhouse construction, the outer circle measuring 450 ft. and the inner, 220 ft. A 2-story storehouse, 40 × 80 ft., will be erected later.

Plans have been completed and are out for bids for the erection of an addition to the factory of the Wilmington Steam Dye Works Co. W. D. Brinckle, Ford Bldg., Wilmington, is Arch.

BALTIMORE, MD.—It is reported that the Lawrie Safe & Lock Co. is contemplating locating a plant here. J. H. Herrick, Rippel Bldg., 7 Clay St., Baltimore, is interested.

BALTIMORE, MD.—Contract has been awarded to HENRY MAAS, 1119 Ensor St., Baltimore, for constructing several additions to the plant of the Montford Machine Casting Co., Montford Ave., Baltimore. The main addition will be 60 × 140 ft. A new core oven, 12 × 20 ft., will be built, and another building, 25 × 25 ft., for shipping purposes is also planned.

WASHINGTON, D. C.—The following contracts have been awarded for the construction of the Firth-Sterling Co.'s projectile plant at Giesboro Point, D. C.: contract for all steel buildings was awarded to W. B. SCAIFE & SONS CO. of Pittsburg, Pa.; contract for furnaces to WILLIAM SWINDLE & SONS, of Pittsburg, Pa., this contract does not include open-hearth furnaces.

WAYCROSS, GA.—See under Railways: Atlantic Coast Line Ry.

NEW ORLEANS, LA.—We are officially informed that plans have been completed and bids are being taken for the construction of a plant in New Orleans for the Hobbs Manufacturing & Stamping Co. The new plant will manufacture stamped tinware, galvanized steelware, oil and coal stoves, milk cans, roof finishing, etc. George P. Hobbs, New Orleans, is Pres.

LOUISVILLE, KY.—The Merchants Ice & Cold Storage Co. has been organized here with a capital of $1,500,000, and will make extensive improvements costing about $150,000 on the plant formerly owned by the Merchants Refrigerating Co. Charles W. Inman, Louisville, is Pres.

CINCINNATI, O.—The E. H. Huenefeld Co., of this city, has been incorporated for $350,000. It is reported that it is the intention of the new company to erect a new plant at Straight St. and Spring Grove Ave., Cincinnati, O.

COLUMBUS, O.—We are officially advised that plans are in progress for a new shop for the Columbus Show Case Co., at Buckingham St. and Grant Ave. The new building will be two stories, brick, 45 × 280 ft. Henry Maetzel & Co., 284½ South High St., Columbus, are Archs.

CINCINNATI, O.—We are officially advised that the plans of Tietig & Lee, Archs., 524 Walnut St., Cincinnati, have been selected for the construction of factory for the Weinrich-Schneider Co., Canal and Walnut Sts. The new building will be four stories, brick and steel, 100 × 100 ft. Cost, $75,000.

ASHTABULA, O.—It is reported that no definite site has been selected for the proposed plant for the Palmer Automobile Co. A. P. Fisk, Ashtabula, is interested.

CLEVELAND, O.—We are officially advised that plans have been completed by C. R. Hinchman, Engr., of the American Steel & Wire Co., Western Reserve Bldg., Cleveland, for a new mill on Aetna St., for the above company. The new building will be 49 × 89 ft.

NORWOOD, O.—The contract for erecting the factory building for the Smith & Nixon Piano Co. was awarded to the LOUIS EID CONCRETE STEEL CO., Logan St., Cincinnati. Haywood & Cordes, Union Trust Bldg., Cincinnati, are Archs.

URBANA, O.—Plans have been completed and are out for bids for an addition to the factory of W. H. Marvin & Co., of this city. The addition will be one story, 40 × 275 ft.

CANTON, O.—It is reported that the Canton Pump Co., of this city, is contemplating an addition to its present plant.

ELWOOD, IND.—The Elwood Heater Co., of this place, has been incorporated and will erect a plant for the manufacture of heaters. George Pohl is interested.

EVANSVILLE, IND.—We are officially advised that it is the intention of the Ohio River Storage & Transfer Co., of this city, to build an elevator and a storage warehouse, at a cost of $50,000. A. F. Karges is interested.

INDIANAPOLIS, IND.—It is reported that the Eaglesfield & Stewart Co., of this city, will build several mills for the manufacture of builders' supplies.

BAY CITY, MICH.—The contract for the refrigerating plant to be added to the Phoenix Brewing Co.'s plant here, was awarded to the VILDER ENGINE & REFRIGERATING CO., of Milwaukee, Wis.

DETROIT, MICH.—Plans have been completed for a new factory building for the Phoenix Wire Works, of this city. The new building will be two stories, brick, 175 × 185 ft. A. C. Varney, 59-61 Newberry Bldg., Detroit, is Arch.

EVANSTON, ILL.—It is stated that the Mark Manufacturing Co., of this city, will rebuild its plant recently destroyed by fire.

READERS' WANTS Our readers, and others, who are in the market for supplies, machinery, etc., or to award contracts for work, will nearly always find the names of the firms who handle the material they want by referring to our advertising pages. Our advertisers are constantly changing their cards, and for this reason we advise our readers to look over the paper from the front cover to the back cover so as to keep in touch with up-to-date contractors' material, methods, etc. **Mention Engineering News** when writing our advertisers. If, however, you do not find advertised just what you want please write us at once and we will notify the proper firms without delay, and **without charge.—Engineering News can help buyers.**

FLOOR TILES.—British Honduras, C. Am.—L. E. Cuevas & Co., Belize, B. H., wants prices on floor tiles.

BUILDING BRICK.—Orrville, O.—The Cyclone Drilling Machine Co. writes us that it is in the market for 150,000 to 200,000 building brick.

BINOCULARS, TELESCOPES, ETC.—New Zealand.—W. H. Woodhead, of Stratford, is understood to be in the market for the above and also opticians' supplies, microscopes, etc.

ROAD MACHINERY.—Uruguay, So. Am.—Carlisle, Crocker & Co., Engrs., Montevideo, U. S. A., writes us that they wish catalogues for makers of road machinery, etc.

STEAM SHOVELS.—Washington, D. C.—Elie Viau, 523 13th St., N. W., writes us that he is investigating the matter of steam shovels for railway work, and wishes to receive catalogues, etc.

FLAKE GRAPHITE.—Birmingham, Ala.—Edgar Bridge, Engr., Chalifoux Bldg., writes us that he wants data relating to flake graphite, especially in relation to its demand and commercial value.

FOUNDRY AND MACHINE SHOP EQUIPMENT.—Baltimore, Md. — Bartlett, Hayward & Co., Founders and Engrs., write us that they are in the market for shop equipment, and wish to be placed in correspondence with manufacturers.

HARDWARE, ETC.—Spain.—Jose R. Salvador, Felix Piscueta, Valencia, Spain, is reported in the market.

PLANERS, ETC.—Memphis, Tenn.—J. P. Meredith Cedar Co., writes us that it wants the names of makers of machines for flattening, or planing two sides of small logs.

CONCRETE BLOCK MACHINERY.—The Princeton Brick & Lumber Co., Princeton, W. Va., and the J. L. Roach Estate, of Greenville, Ky., are reported in the market for concrete block making machinery.

PNEUMATIC TUBES.—Cuba.—The J. F. Adams Engineering Co., Calle de Cuba, 76, Havana, writes us that it wants the names of makers of pneumatic tubes, as it is intended to lay considerable amount of tubing.

CAST IRON AND WOODEN PIPE.—Lewistown, Mont.—O. F. Wasmansdorff, C. E., writes us that he wishes to be placed in correspondence with manufacturers of cast iron or wooden water pipe as about 4½ miles are required.

STEEL, CAST-IRON, ETC.—Montana.—Chas. Stabern, general contractor, Glendive, Mont., writes us that he is in the market for large quantities of steel, cast-iron, bolts, etc., for work on an irrigation contract he has on the Lower Yellowstone project in three divisions. Further notes regarding his wants will appear next week. Blue print drawings showing details are on file at the office of Engineering News, 220 Broadway, New York.

CHICAGO, ILL.—Plans have been completed for a factory building for A. F. Anderson, at 5842 Loomis St., Chicago. The new building will be one story, 49 × 75 ft., to be used for architectural iron works. S. Linderoth, 5844 Elizabeth St., Chicago, is Arch.

DALLAS, TEX.—It is reported that the First Texas Chemical Co., of this city, will erect a new 3-story brick factory building. C. C. Slaughter, Dallas, is Pres.

It is stated that the Liquid Carbonic Co., of this city, will build a new factory here. The proposed building will be of brick, 58 × 200 ft. L. M. Moyer, Dallas, is interested.

SEATTLE, WASH.—We are advised that the San Juan Fishing Co., of this city, will erect a new fish curing plant, which will have an output of 25,000 tons per year. Cost, about $75,000.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

RAILWAY SHOPS, ETC.—Waycross, Ga.—See under Railways; Atlantic Coast Line.

COKE OVENS.—Morgantown, W. Va.—The Elkins Coal & Coke Co. may build 100 more coke ovens.

DRAIN.—Eldora, Ia.—Bids are asked until Feb. 5, 1 p. m., for construction of a drain over three miles long. Jay S. Newcomer is County Audr.

DEEPENING CANALS.—Leesburg, Fla.—L. M. Johnson, Town Clk., states that between $6,000 and $8,000 will be expended on deepening and widening existing canals.

RETAINING WALL.—Bradford, Pa.—Bids are asked until Feb. 5 for the construction of retaining walls on High St. and on the Tuna Creek bank, it is reported. A. J. Bannon, Jr., is City Engr.

HOSE WAGON, ETC.—Crookston, Minn.—We are advised, officially, that bids are asked until Feb. 27 for one hose wagon and also one chemical engine. J. E. Carroll is City Engr. Tom Morris is Ch. Fire Dept.

REFRIGERATING APPARATUS.—Poughkeepsie, N. Y.—Bids are asked until 3 p. m., Feb. 7, for refrigerating apparatus at Hudson River State hospital, at Poughkeepsie. T. E. McGarr, Secy. State Comn. in Lunacy.

DREDGING. — Savannah, Ga. — Bids are asked until noon, March 2, for dredging in waterway between Savannah, Ga., and Fernandina, Fla. Lieut. Col. James B. Quinn, Corps of Engrs. (Advertised, Engineering News.)

SNAGBOATS.—Dallas, Tex.—Plans and copies of specifications for constructing two wooden snag-boats are on file at New York office of Engineering News. Bids are asked until Feb. 19, as advertised in Engineering News.

CANAL UNDERPASS.—Holyoke, Mass.—The Board of Aldermen is reported to have appointed a committee to investigate the cost of constructing an underpass connecting Canal St. in Ward Two with Canal St. in Ward One.

SLUICE GATES, ETC.—Los Angeles, Cal.—Plans, specifications and bidding sheet for construction of sluice gates, etc., are on file at New York office of Engineering News. Bids are asked until Feb. 28, as advertised in Engineering News.

STRAIGHTENING CREEK. — Wichita, Kan.—It is reported that survey has been commenced for straightening Chisholm Creek, along the entire course through the eastern portion of this city, and to its confluence with the Arkansas River.

PIER.—New York, N. Y.—Bids are asked by J. A. Bensel, Comr. of Docks, until 2 p. m., Feb. 2, for furnishing all the labor and materials required for preparing for and building a new pier near the foot of Old Slip, East River, to be known as Pier No. 9, East River.

DOCKS.—Chicago, Ill.—It is reported that all bids opened on Jan. 6 by Joseph M. Patterson, Comr. of Pub. Wks., for constructing docks on the east ends of Touhy, Greenleaf, Pratt and Bryan Aves., have been rejected and new bids will be called for.

STEEL BARGES.—Baltimore, Md.—The Consolidation Coal Co., of Baltimore, has contracted with the NEW YORK SHIPBUILDING CO., of Camden, N. J., for the construction of two steel barges to be used in the company's coastwise traffic.

EARTHEN DAM.—Denison, Tex.—Bids will be received on Feb. 1, it is reported, by the Denison Rod and Gun Club for constructing an earthen dam to contain about 50,000 cu. yds., including the excavation for the spillway. C. D. Kingston is Pres.

PIER.—Portsmouth, N. H.—Plans, specifications and bidding sheet for a pile and timber pier for the U. S. S. "Topeka," at Portsmouth Navy Yard, may be seen at office of Engineering News, New York. Bids are asked until Feb. 10. Noted on Jan. 18.

CHANNEL.—Montgomery, Ala.—Capt. Jas. B. Cavanaugh, Corps Engrs., U. S. A., at Montgomery, has submitted a report on plan for a 4-ft. channel in Alabama River from its mouth to Montgomery and from Montgomery to Wetumpka. He estimates the cost at $650,000.

CEMENT.—Minneapolis, Minn.—Bids are asked until Feb. 9, we are officially advised, for furnishing 5,000 bbls. of Portland cement and 5,000 bbls. of natural cement for sewer work in 1906 and also 20,000 bbls. Portland cement for paving work in 1906. Andrew Rinker is City Engr.

REPAIRING WALL, ETC.—Savannah, Ga.—Bids are asked until March 2, noon, for repairing and raising the training wall in Brunswick inner harbor, Ga., and the jetty at the mouth of Jekyl Creek, Ga. Lieut.-Col. James B. Quinn, Corps of Engrs. (Advertised, Engineering News.)

SUPPLIES.—Washington, D. C.—Bids were opened on Jan. 23d at Navy Department for various supplies for Navy Yards. The only bid interesting to engineers was: 1,500,000 lbs. (more or less) Portland cement, League Island Navy Yard; lowest bidder, Alpha Portland Cement Co., $5,368.

DITCH.—Northwood, Ia.—Bids are asked until Feb. 20 by the Board County Supervisors, for constructing a ditch in County Drainage District No. 1, Brookfield and Kensett Townships, to consist of 11,175 lin. ft. open ditch, 4-ft. base. Estimated at 27,882 cu. yds. Iver Iverson, Jr., County Audr.

DIKE.—Ford City, Pa.—Bids are asked by the Pittsburgh Plate Glass Co., until Feb. 5, for dike or crib, 12 ft. wide, about 25 ft. high, and about 1,000 ft. long; filled with limestone and sandstone rip-rap, bids to be made on price per cu. yd. of stone and per lin. ft. of timber, both to be measured in place.

STEAM SHOVEL EXCAVATION. — Towanda, Pa.—Sub-bids are asked from steam shovel contractors for removing about 100,000 cu. yds. of earth; 65,000 to 70,000 yds. side work, in one piece and about 30,0000 yds. of it burrow and short haul. Address E. Whalen, General Contractor, Towanda, Pa. (Advertised, Engineering News.)

CANAL.—Indianapolis, Ind.—Bids are asked until March 15 for the construction of a canal in southern Oregon in accordance with the plans and specifications of J. S. Howard, Engr. The excavation is to be 14 ft. at top, 8 ft. at bottom, 6 ft. deep and 55 miles in length, this being the first section. Address the Secretary of the Gold Hill Canal Co., 825 Law Bldg., Indianapolis.

DRAINAGE.—Fort Lauderdale, Fla.—The MERRILL-STEVENS CO., of Jacksonville, Fla., will begin construction at once of two dredgers and four small barges at Fort Lauderdale for draining the Everglades. The lumber is to be supplied by G. S. BAXTER & CO. J. W. Newman, Engr., Capt. Skinner and Capt. H. C. Cassidy are in charge of the engineering and construction work. This work is being done for the trustees of the Internal Improvement Fund. There is available $350,000. The cost of building the dredgers and smaller boats probably will be less than $150,000.

CEMENT.—Chicago, Ill.—A city has been granted by the Secretary of the Interior for the purchase in open market of 13,000 bbls. of cement for immediate delivery, without further order, used in the construction of the Shoshone project, Wyoming. The Reclamation Service will purchase at the best price obtainable, not to exceed $1.30 per bbl., f. o. b. Chicago, Ill.

EXCAVATION.—Collinsville, Ill.—W. J. Crocken, City Engr., East St. Louis, Ill., has made a survey in Madison County, Ill., under direction of Trustees of Collinsville and Nameoki Townships, for change of channel of Canteen Creek, involving a change of line for about one mile with excavation amounting to about 11[illegible] cu. yds. Geo. Long, of Collinsville, Ill., is Trustee for Collinsville Township.

VESSEL.—Washington, D. C.—Bids were opened on Jan. 24 at the office of the Light House Board, Washington, for furnishing the materials and labor of all kinds necessary for the construction and delivery of the single-screw steel steam light vessel No. 84. The following bids were received: Maryland Steel Co., Baltimore, $135,000; Percy, Jones & Co., Wilmington, Del., $109,000; Bath Iron Works, Bath, Me., $120,000. All bids were rejected as being in excess of appropriation of $90,000.

OIL CARRIERS.—Newport News, Va.—The NEWPORT NEWS SHIPBUILDING & DRY-DOCK CO. has been awarded the contract for converting the ships, "Minnewaska" and "Minnetanko," of the Progress Steamship Co., into oil-burning oil-carriers. The vessels will be brought to Newport News from New York, and the work will be completed, probably, within four or five months. The contract involves an expense of over $100,000.

DUMP SCOW.—Wilmington, Del.—We are officially informed that bids were received by Capt. R. P. Johnston, Engrs., on Jan. 15 for one four-pocket bottom dump scow, as follows: Sam J. Pregnall, Charleston, S. C., $8,950; F. C. Blackmer, Jacksonville, Fla., $9,999; F. C. Blackmer, Jacksonville, Fla., $9,517 (for Savannah merchantable lumber); Roderman Bros., Tompkins Cove, N. Y., $14,000; Fred O. Smith & Geo. W. McCoy, Norfolk, Va., $14,800.

WHARVES, PIERS AND BUILDINGS.—San Francisco, Cal.—Army transport headquarters in San Francisco harbor are proposed, and would include the following works: General office building, storehouses, repair shop, electric light and power plant, construction of wharves and necessary dredging for accommodation of army transports, construction of roads, walks, water supply, ice plant and sets of quarters for officers of supply departments. The estimated cost of the entire project is $1,250,000.

DREDGING.—Meredosia, Ill.—The contract for the dredging work of the Willow Creek drainage district has been let to R. H. McWILLIAMS, of Mattoon, Ill., at 11½ cts. per cu. yd. The total amount of the bid was $13,256. The Willow Creek district lies 1½ miles north of Meredosia, and extends east from Meredosia Lake. The main ditches will total about five miles in length, and there will be about 1¼ miles of laterals. C. W. Brown, of Jacksonville, Ill., is the Engr. of the district, and the commissioners are A. J. Leslie, H. D. King and Henry Rogge. Worthington & Reeve are the Attorneys for the district.

CANAL.—Billings, Montana.—We are officially advised that in March, 1905, the Secretary of the Interior provisionally set aside $1,000,000 for the construction of a canal from St. Mary River to the north fork of Milk River in connection with the "Milk River project, Montana." On Jan. 15 the Secretary further authorized the preparation of specifications and the advertising for bids for the construction of the canal. It is expected the work will be rapidly pushed now, and that bids can be advertised some time in April. The engineer in charge of the work is Cyrus C. Babb. The supervising engineer for the district is H. N. Savage, at Billings, Mont.

CANAL.—Oregon.—The Secretary of the Interior on Jan. 25 awarded the following contracts in connection with the construction of the Klamath project, Oregon-California: For schedules 1, 2 and 3, to MASON, DAVIS & COX, Portland, Ore.; for schedule 4, to the INTERNATIONAL CONTRACT CO., Seattle, Wash. The Mason-Davis bids call for the excavation of approximately 718,400 cu. yds. of material, 8,000 sq. yds. concrete, 3,100 lin. ft. of tunnel, 3,100 lin. ft. tunnel lining, and six sets of steel gates and guides for headworks. Their total bid is estimated at $377,330. The bids of the International Co. are for five spans, 86-ft. Howe truss span superstructure complete in place, and one span 80-ft. Howe truss span superstructure complete in place. Its bid was $6,828.

WIRELESS TELEGRAPH APPARATUS.—New York, N. Y.—Bids were opened Jan. 25 at the Navy Pay Office, Navy Dept., Washington, for six sets of wireless telegraph apparatus, each set to include one complete sending and two complete receiving outfits and to consist of all parts necessary for the successful operation of the same except antennae and (in the case of three of the sets) except low potential generator, for delivery at the New York Navy Yard. Bids were as follows: Clark Electrical Engineering Co., $9,515; National Electric Signalling Co., $165,450; International Telegraph Construction Co., $19,500; Marine Transmission Co., $123,000; Massie Wireless Telegraph Co., $18,380; Stone Telegraph & Telephone Co., $24,020; Telefunken Wireless Telegraph Co. of United States, $25,500.

RAILROAD SLIP.—New York, N. Y.—We are officially informed that Milliken Bros., Inc., 11 Broadway, New York, are now engaged in getting up plans and specifications covering a slip and float bridge at their plant on Staten Island so that the largest railroad car carrying floats can be accommodated.

This will enable all railroad companies entering New York harbor to deliver their cars on Milliken Bros.' tracks without the necessity of lighterage and unloading the freight into lighters. It is expected that the construction of this will be modern in every way, even to constructing a bulkhead of concrete instead of timber material. The slip will be wider than a single float, in order to accommodate lighters. A large electric traveling crane will pass directly over both the float and the lighter to enable lighters to be loaded by overhead traveling cranes.

U. S. POSSESSIONS AND CUBA.

The names of parties awarded contracts are printed in capital letters.

MISCELLANEOUS SUPPLIES.—Panama.—Bids are asked until 10.30 a. m., Feb. 19, by the Isthmian Canal Commission for furnishing various supplies. (Advertised, Engineering News.)

DREDGING.—Guantanamo, Cuba.—The Bureau of Yards and Docks, Navy Dept., Washington, D. C., has awarded to JOHN H. MILLER, Key West, Fla., the contract for dredging at Guantanamo, Cuba, at his bid of 59 cts. on all items. Bids were opened Jan. 20, as noted in Engineerings News on Jan. 25.

PIPE, ETC.—Panama.—The Isthmian Canal Commission will soon call for bids on 12,500 ft. 4-in. cast-iron soil pipe, 5-ft. lengths and all necessary fittings; 126,500 ft. wrought-iron and galvanized wrought-iron, of various sizes from ¼-in. to 5-in. with fittings; 244,200 merchantable iron flat bars, commercial lengths; two engines and generators of 325 and 200 K.W., of 250 volts and 2,200 volts respectively; one multipolar generator and exciter, two transformers and one switchboard; volimeters and other electrical appliances, valves and pulleys, etc.

WATER-WORKS.—Cardenas, Cuba.—The Cardenas City Water-Works Co. has been organized by J. M. Ceballes, 27 William St., New York. Capital is $200,000. The company has nearly completed arrangements to put in water-works in a dozen other cities and towns in Cuba, and it is estimated that the whole undertaking will require about $1,000,000. The new company purposes putting in an adequate system of mains and a model pumping station and cut prices to a point which will enable every household to use water freely. The Cuban Government will cooperate by enforcing strict sanitary regulations as soon as the water supply is available.

RAILWAYS.—Philippine Islands.—We are officially informed that the Philippine Commission has decided to award the contract for the construction of 100 miles of railway in Panay, 100 in Negros, and 95 in Cebu, to the syndicate composed of J. G. WHITE & CO., and others, at the terms of their bid. The Commission is still in consultation regarding the bids of Speyer & Co. on the island of Luzon. This project was fully noted last week. The Philippine Government has authorized the Bureau of Insular Affairs, of the War Department, to sell $1,000,000 of public improvement gold bonds. These bonds are redeemable at the pleasure of the Philippine Government after ten years, and will be payable in 30 years after date, principal and interest at 4%, payable at the United States Treasury. Bids for the bonds must be received by the Bureau of Insular Affairs not later than 3 p. m., Feb. 15. The syndicate which plans to build the 295 miles of railway noted above is composed of William Solomon & Co., Cornelius Vanderbilt, the International Banking Corporation, H. R. Wilson and Heidelbach, Ickelheimer & Co., all of New York; Charles M. Swift, of Detroit, Mich., and the general representative, J. G. White & Co., 49 Exchange Place, New York.

We are informed, officially, that "Willard R. Green, of New York, representing a syndicate of capitalists and contractors, has filed a bid with the War Department for the construction of the proposed system of railways in the Philippines. At the time the bids were originally opened in December, Mr. Green made some propositions to the War Department looking towards a modification of the specifications. The bids were rejected at that time and slightly altered specifications issued calling for bids on Jan. 29. At that date bids were received from two syndicates covering all the routes except on Leyte and Samar. On these bids the Commission has formally accepted the bid of the J. G. WHITE syndicate on the islands of Negros, Panay and Cebu. The bids of Speyer & Co., on the island of Luzon, are still under consideration. Mr. Green and his associates contend that as there has been no competition that the matter is still open and in accordance submit a bid. Their bid proposes the construction of a minimum of 1,000 miles of railroad in the Philippines, with a detailed plan for the construction of warehouses at all terminal points and a general system for producing shipping sufficient in quantity to cooperate with and serve the traffic of the entire railway system. To prevent the roads when constructed from falling into the control of any American or foreign combination of railroads, the bidders propose to deposit 51% of the share capital of the company in trust to insure the bona fides and continuance of that condition during the period of guaranty by the government. At the end of the period of guaranty it is proposed to give the government of the Philippines such a proportionate part of an interest in the railroads as the accumulated amount of its contributions to the sinking fund may at such time bear to the whole amount of the bond issue guaranteed by the government. The bid proposes to commence work upon the roads as provided by the terms of the invitations and to complete them within three years. The detailed plans for the different routes are explained at length, all of which are designed for cooperative effort in developing the resources and shipping interests of the islands. The routes proposed differ in some material respects from those defined by the government, but the assertion has been made by the bidder that the system as proposed by the government would not reach the portions of the archipelago most in need of railways and most capable of supporting them, and that it does not call for any concerted plan of cooperation by the different branches of the proposed system, with a view of systematic development of the traffic of the islands."

CIVIL SERVICE EXAMINATIONS

STATISTICIAN.—Washington, D. C.—An examination is announced by the U. S. Civil Service Commission on Feb. 21, for the position of statistical expert, at $1,200 per year, in the Geological Survey. Application form No. 1312.

ASSAYER, ORE DRESSER.—Washington, D. C.—The U. S. Civil Service Commission, Washington, D. C., announces an examination to be held Feb. 21 for position of assayer and ore dresser expert, at $1,000 a year. Application form No. 1312.

ENGINEMAN.—Portland, Me.—An examination is announced by the U. S. Civil Service Commission, Washington, D. C., to be held Feb. 14, for position of engineman, at $1,000 a year. Quartermaster's Dept. at Large, Fort McKinley, Me. Application form No. 1093.

ENGINEERS.—Washington, D. C.—The U. S. Civil Service Commission invites attention to the fact that owing to the small number of applications filed for the examination announced for Jan. 10, it has been postponed to Feb. 7, to fill vacancies in the Indian Service in engineering positions. Fully noted in Engineering News, under Civil Service Examinations, on Dec. 28. Application form No. 1093.

DRAFTSMAN.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Feb. 20-21, to fill four vacancies in the position of draftsman (permanent), at $4 per day each, in the different offices of the United States Surveyors General, as follows: Two vacancies at Olympia, Wash.; one vacancy at Boise, Idaho; and one vacancy at Phoenix, Ariz. A number of temporary appointments are made to this position from time to time. Application form No. 1312.

GRINDER OF THIN SECTIONS OF ROCK FOR MICROSCOPIC STUDY (Male).—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Feb. 21, for the position of skilled laborer (male) qualified as grinder of thin sections of rock for microscopic study in the Geological Survey, at $40 a month, and similar vacancies as they may occur in that survey. The position to which appointment is to be made will last for four months or more. Application form No. 1312.

ARCHITECTURAL DRAFTSMAN, ETC.—Albany, N. Y.—The State Civil Service Commission announces examinations to be held on Feb. 17, 1906, for the following positions: Architectural draftsman, $15 to $25 a week; architectural designer, $25 to $40 a week; assistant civil engineer; leveler; civil engineering draftsman; assistant electrical engineer; foreman of laborers, Department of Public Buildings, Albany, $1,500.

The last day for filing applications for these examinations is Feb. 12. Charles S. Fowler, Ch. Examiner.

INDUSTRIAL NOTES.

THE STRUCTURAL STEEL CO., Paterson, N. J., has secured the contract for the structural steel in the new building for the N. Y. Club, 5th Ave. and 35th St. H. J. Hardenburg, Archt., and Wells Bros., contractors.

MR. T. R. HASLEY, Ch. Engr. St. P. & Des M. R. R., inventor of a concrete railway tie, writes us that the Copper Range R. R. is preparing to put in a number of his ties in the track at Houghton, Mich., under C. W. Sanders, Ch. Engr. for the company.

THE ALMA CEMENT CO. will remove its offices from Philadelphia to Wellston, O., after Feb. 15. Jas. L. Bernard has resigned as sales manager of the Northampton Portland Cement Co. to assume the position of sales manager with the Alma Cement Co.

THE ABNER DOBLE CO., of San Francisco, announces that it has opened a branch office at 447 Pacific Electric Bldg., Los Angeles. The new branch will have for its field Southern California, Arizona and New Mexico and parts of Nevada and Mexico. Mr. L. Cummins will have charge of the office.

THE SPRAGUE ELECTRIC CO., New York, is making a specialty of motor equipments for driving, heating and ventilating apparatus, and among recent orders for such equipments are the following: The First Day & Night Bank, 5th Ave. and 44th St., the Knickerbocker Hotel, the Broad Exchange Building, the New Women's Hospital, all in New York City, and also the Hoboken Terminal of the D., L. & W. R. R.

THE MARINE IRON WORKS, Chicago, Ill., report that they have recently shipped three shallow-draft river steamers to Bolivia, and have one now under construction for the Hudson's Bay Co., of Canada, for which company they have already done considerable work. These boats have steel frames which are shipped "knocked-down" with the machinery and all equipment, plans being furnished for their erection. The wood planking and deck are furnished by the purchasers.

THE UNITED STATES GYPSUM CO., 200 Monroe St., Chicago, reports that the annual meeting of its representatives, salesmen, managers, etc., was held in Chicago on Jan. 10 and 11, at which about 75 persons were present from all parts of the country. Reports were presented as to methods of work, the year's business, etc., and are said to have shown a great progress in the company's trade. Besides the business meetings, time was devoted to social purposes and entertainments, including a theater party and banquet.

THE U. S. CONSTRUCTION & SUPPLY CO., Inc., successors to the Pacific Const. & Supply Co., has been incorporated to carry on a general contracting business. The following men are in charge of the various departments: E. Stiernlov, Architectural Dept.; H. A. Dunlap, Structural Dept.; J. C. Green, Electrical Dept.; W. S. Madick, Decorating Dept.; A. C. Dale, Sanitary and Heating Dept.; J. T. Webb, Plastering and Stucco Dept.; H. Bobbitt, Masonry Dept. These officers are also supervisors of all work that comes under their respective departments. The buying and ordering of material is left to the respective superintendents.

THE DE LA VERGNE MACHINE CO., New York, reports that it has been awarded a large contract for oil engines by Burnham, Williams & Co. (Baldwin Locomotive Works), Philadelphia. This is for engines aggregating over 3,300 actual HP. Some of these are to be installed in Philadelphia, and the remainder at their steel works, at Burnham, Pa. The installation will consist of 125 and 250 HP. "Hornsby-Akroyd" oil engines and they are to be used for direct connection to electric generators and to air compressors, while others will be used for operating machine tools by belt. Rohe & Bro., of New York, are having the single-acting compressors removed from their refrigerating machine and are substituting double-acting compressors made by the De La Vergne Machine Co. This increases capacity from 35 to 55 tons.

THE ELECTRIC CABLE CO., of Bridgeport, Conn., has been formed to succeed the Magnet Wire Co. and the Peerless Electric Co., both of New York. The company is erecting a factory in Bridgeport where it will manufacture magnet wire, field and armature coils and voltax, the new non-rubber insulation which is now being placed on the market for the first time. The New York office will be at 42 Broadway. The officers of the company are: Pres., Edwin W. Moore; Vice-Pres., Frederick H. Cowles; Treas., J. Nelson Shreve; Secy., H. S. Williston.

THE ROBINS CONVEYING BELT CO., of New York, has recently secured an order through its Boston office for a bucket elevator for the Bon Ami Co., Manchester, Conn. Among other orders now being filled by the Robins Co. is one for a system of 14-in. belt conveyors and bucket elevator for the Penn. Sand & Glass Co.'s plant at Granville, Pa., and an order from the Scofield Co., Philadelphia, for 30-in. and 18-in. conveyors for the Nashville Light, Heat & Power Co.

THE H. MUELLER MFG. CO., in accordance with its annual custom, had its traveling salesmen in off the road for a ten-day conference and school of instruction the first of the year. The meeting was held at the home office of the company at Decatur, Ill., and all of the 20 salesmen and officers of the company were in attendance. The purpose of the gatherings is to thoroughly inform the men in the details of the business that might be to their advantage in selling goods. Incidentally the annual visit of the salesmen is made pleasant by a number of social features, among them being a banquet to the salesmen by the company in the dining-room at the office and the return dinner tenderd by the travelers to the officers of the company and their wives at one of the local hotels. The following is a list of the traveling men, with their headquarters for the present year: From the Decatur Office—Mon T. Whitney, 5912 Normal Ave., Chicago; W. B. Ford, P. O. Box 749, Birmingham, Ala.; F. C. O'Neill, 711 Main St., Quincy, Ill.; W. N. Dill, Pacific Coast representative; H. F. Clark, 15 Waverly Pl., Grand Rapids, Mich.; D. E. Rowley, 219 Bright St., Indianapolis.; F. J. Murphy, 4543-A McMillin Ave., St. Louis; W. C. Heinrichs, 1336 Byron Ave., Chicago; Murry F. Kirkwood, 1330 Prospect Ave., Kansas City, Mo.; J. H. McCormick, Huron, O.; F. B. Mueller, Decatur; James Smith, 725 Bellefonte St., Pittsburg; H. E. Paxton, Decatur. From the New York Office—W. D. Malane, 2216 St. Johns Pl., Brooklyn; A. C. Pilcher, P. O. Box 865, Springfield, Mass.; J. W. Pine, 197 Main St., Rochester; Chas. Tillinghast, Woodland Ave., Woodhaven, L. I., N. Y.; C. T. Ford, 821 16th St., N. W., Washington; Geo. A. Caldwell, 808 Blue Hill Ave., Boston; W. F. McCarthy, 5013 Larchwood Ave., Philadelphia.

THE FOSBURGH CO., No. 6 Beacon St., Boston, report the following contracts executed during the past year; 9-story office building for the Boston Wharf Co., 152 × 72 ft., with steel frame concrete floors, Philadelphia face brick and limestone exterior. M. D. Safford, Arch. Group of cotton manufacturing buildings for the Dartmouth Mfg. Corporation, New Bedford, Mass., consisting of one building 300 × 100 ft., 4 stories high; storage warehouse 370 × 70 ft., 6 stories high; power house 60 × 60 ft. F. P. Sheldon & Co., Engrs. H. C. Nevins' Home for Aged ann Incurable, at Methuen, Mass. Building constructed of brick and limestone exterior, with oak and ycpress interior finish, containing about 45,000 sq. ft., modeled after the Manor House of Sir Geo. C. Reade. H. M. Stephenson, Arch. An addition of four buildings to the present plant of the Brown & Sharpe Mfg. Co., Providence, constructed with steel frame, concrete floors and brick exterior walls; one building 150 × 60 ft., 4 stories high; one 190 × 65 ft., 3 stories; one 280 × 118 ft., 1 story; one 170 × 90 ft., 1 story. W. T. Hatch, Engr. Four buildings for the Ward-Corby Co., Pittsburg, erected at Cambridge, Mass., with steel frame, concrete floors and brick exterior; two buildings 180 × 50 ft., 2 stories; one 180 × 50 ft., 3 stories; one 180 × 56 ft., 3 stories; one 180 × 40, 1 story. James L. Parsons, Jr., Arch. Office building for the Boston Herald, 125 × 35 ft., 7 stories; steel frame, granite and limestone exterior, fireproof floors, copper dome and roof. C. Howard Walker, Arch. Also Mechanical and Publishing building for the Boston Herald, 55 × 125 ft., 6 stories, with steel frame, buff brick and limestone exterior and terra cotta arch floors. Dean & Main, Engrs. Hall of Records for the County of Hampden, Springfield, Mass., 160 × 80 ft., steel frame, fireproof floors, granite granite exterior, tile and marble finish. Shepley, Rutan & Coolidge, Archs. Office building for the Warren Chambers Trust, Boston, 140 × 60 ft., 8 stories high, limestone exterior, steel frame throughout. Wheelwright & Haven, Archs.

THE BROWN HOISTING MACHINERY CO., Cleveland, O., has sold, erected and put in operation for the Kyushu Ry. Co., at Tobata, Japan, in the harbor of Wakamatsu, Straits of Shimonoseki, two steam hoisting machines of the gantry crane type of 8,000 tons daily capacity, for the purpose of delivering coal from cars into seagoing vessels as cargo. The installation of this machinery means much for the further development of the coal trade at Wagamatsu, as it doubles the present capacity for handling coal at that port. Additional machines will be installed as the capacity of the docks, now being extended, will allow. It is confidently expected that the putting in operation of these machines will rapidly revolutionize the methods now in vogue of loading cargo coal on seagoing vessels at the various coal-shipping ports in this district.

TRADE PUBLICATIONS.

VITRIFIED BRICK.—Terre Haute Vitrified Brick Co., Terre Haute, Ind. Paper; 9 × 6 ins.; pp. 24; illustrated.

These bricks are for paving, sewers, buildings, etc., and the illustrations represent their varied application. Several pages are also devoted to instructions for the laying of brick pavements.

CONCRETE MACHINERY.—The Standard Sand & Machine Co., Cleveland, O. Paper; 6 × 9 ins.; pp. 36; and 6½ × 10 ins., pp. 6; illustrated.

The pamphlet deals with concrete-block machines and complete block making plants; also sand mixers and dryers, pneumatic tampers and gas engines and air compressors. The 6-page circular relates to sand mixing, screening and conveying apparatus.

ALTERNATING CURRENT GENERATORS.—Allis-Chalmers Co., Cincinnati, O. Bulletin No. 1,048. Paper; 8 × 10½ ins.; pp. 23; illustrated.

This is the general bulletin covering the Bullock Engine Type alternators, of two types—the fly-wheel type, having the field poles mounted on the face of the engine fly-wheel, serving the double purpose of fly-wheel and field spider; and other type in which the fly-wheel is mounted on the shaft alongside the generator. A detailed description of the construction of the various parts is given.

SMOKELESS FURNACES.—The Murphy Iron Works, Detroit, Mich. Paper; 9 × 6 ins.; pp. 31; illustrated.

This pamphlet describes and illustrates the Murphy automatic furnace, which has two inclined grates forming a V, above which is a brick arch. The grates have alternate stationary and movable grated bars, and the coal is fed on each side, entering at the top of the grate. The various parts are shown in detail, and there are a number of views of later plants equipped with these furnaces (under boilers of various kinds), notable among these is the Cambria Steel Co.'s plant with 248 furnaces under boilers of 43,890 HP.

For other Proposal Advertisements see pages 43, 44, 45, 46, 47, 48, of Advertisements and Construction News page 46.

Municipal Civil Service Commission,
61 Elm Street,
New York, January 20, 1906.

PUBLIC NOTICE IS HEREBY GIVEN that an open competitive examination will be held for the position of INSPECTOR OF STEEL CONSTRUCTION on Thursday, February 15, 1906, at 10 A. M. The receipt of applications will close on Saturday, February 3, at 12 M. For scope of examination and further information, apply to the Secretary of the Commission.

William F. Baker, President.
R. Ross Appleton,
Alfred J. Talley,
Civil Service Commissioners.
Frank A. Spencer,
Secretary. 4-2t

U. S. ENGINEER OFFICE, Savannah, Ga., January 30, 1906.—Sealed proposals for repairing and raising the training wall in Brunswick Inner Harbor, Ga., and the jetty at the mouth of Jekyl Creek, Ga., will be received at this office until 12, noon (Eastern Standard Time), March 2, 1906, and then publicly opened. Specifications, blank forms and all available information will be furnished on application to this office. JAMES B. QUINN, Lieut. Col., Corps of Engineers, U. S. Army. 5-4t

SEALED PROPOSALS will be received at the office of the Light-House Engineer, Philadelphia, Pa., until 12 o'clock M., February 28, 1906, and then opened, for the construction of a dwelling, oil-house, barn, etc., at Reedy Island Range Rear Light-Station, Del., in accordance with specifications, copies of which, with blank proposals and other information, may be had upon application to Major J. C. Sanford, Corps of Engineers, U. S. A., Engineer. 5-2t

WATER-WORKS IMPROVEMENTS.

Norfolk, Va.

Sealed proposals will be received up to 12 o'clock noon, Feb. 15th, 1906, at the Office of the Superintendent of the Norfolk City Water Department, Norfolk, Virginia, for the improvement of the Coagulating Basin of the water system of the City of Norfolk, Virginia.

The work to be done includes:

1st. Driving about 600 lineal feet of wooden grooved and tongued sheet piling.

2d. Excavating about 12,000 cubic yards of earth.

3d. Driving about 150 piles in bottom of basin.

4th. Setting floor sills and laying wooden floor in bottom of basin, about 76,000 square feet in area, and bricking sides of same.

5th. Constructing two sluice-ways of brick and setting sluice gates in same.

6th. Constructing suction chamber and setting sluice gates.

7th. Laying about 680 feet of 30-in. cast iron water pipe.

8th. The furnishing of all materials required for the work.

The Board of Water Commissioners reserves the right to reject any or all bids, or to accept the one which in their judgment is for the best interests of the Department.

Proposals for doing the proposed work in concrete construction entirely, instead of wood, are especially invited, provided proper guarantees as to the sufficiency of the same to make the basin water tight are given, and the time required to do the work specified.

A certified check or draft for the sum of $1,000, payable to the order of H. S. Herman, Treasurer to the City of Norfolk, Virginia, must accompany each proposal, which is to be held as a guarantee that if the bid is accepted the bidder will enter into a contract within ten days thereafter.

A bond in the sum of $5,000 will be required for the successful completion of the work.

Plans and specifications can be seen at the office of the Superintendent of the Water Department, Norfolk, Virginia, and at the office of the Engineering News, New York City.

BOARD OF WATER COMMISSIONERS,
Norfolk, Virginia.

Jan. 12, 1906. 3-3t

SEWERAGE SYSTEM, EAST OF WOODBINE AVENUE.

Toronto, Can.

Tenders will be received by registered post only, addressed to the Chairman of the Board of Control, City Hall, Toronto, up to noon on Tuesday, March 6, 1906, for the construction of Sewers, Pumping Stations, Septic Tanks and Bacteria Beds for a system of sewerage east of Woodbine Avenue, Toronto, Canada.

Envelopes containing tenders must be plainly marked on the outside as to contents.

Plans may be seen, and specifications and forms of tender obtained, at the office of the City Engineer, Toronto.

The usual conditions relating to tendering as prescribed by City By-law must be strictly complied with.

The lowest or any tender not necessarily accepted.

EMERSON COATSWORTH (Mayor),
Chairman Board of Control.

City Hall, Toronto, January 24, 1906. 5-3t

Municipal Civil Service Commission,
61 Elm Street,
New York, January 19, 1906.

PUBLIC NOTICE IE HEREBY GIVEN that an open-competitive examination will be held for the position of ASSISTANT ENGINEER, RAPID TRANSIT COMMISSION, on Tuesday, February 13, 1906, at 10 A. M. The receipt of applications will close on Friday, February 2, at 4 P. M. For scope of examination and further information, apply to the Secretary of the Commission.

William F. Baker, President.
R. Ross Appleton,
Alfred J. Talley,
Civil Service Commissioners.
Frank A. Spencer,
Secretary. 4-2t

Municipal Civil Service Commission,
61 Elm Street,
New York, January 20, 1906.

PUBLIC NOTICE IS HEREBY GIVEN that an open competitive examination will be held for the position of TRANSITMAN AND COMPUTER on Friday, February 16, 1906, at 10 A. M. The receipt of applications will close on Monday, February 5, at 4 P. M. For scope of examination and further information, apply to the Secretary of the Commission.

William F. Baker, President.
R. Ross Appleton,
Alfred J. Talley,
Civil Service Commissioners.
Frank A. Spencer,
Secretary. 4-2t

RAILWAY WORK.

C., C., C. & St. L. Ry.

Proposals on grading and masonry involved in double track construction on relocation of the Cincinnati Division of the Cleveland, Cincinnati, Chicago & St. Louis Railway will be received in this office until noon, February 15, 1906.

Earthwork yardage, 2,000,000, subdivided into sections ranging from 200,000 to 800,000 cu. yds.

Aggregate masonry yardage, 20,000.

W. M. DUANE, Sup't Construction.
5-2t

DEPARTMENT OF THE INTERIOR, Washington, D. C., January 17, 1906.—Sealed proposals will be received at the office of the United States Reclamation Service, 1108 Union Trust Building, Los Angeles, Cal., until 2 o'clock p. m., February 28, 1906, for the construction of sluice gates and regulator gates complete with piers, bridging and operating machinery for Laguna Dam across the Colorado River at a point about 10 miles northeast of Yuma, Arizona. The work involves the building of about 1,700 cubic yards of concrete piers and abutments and the furnishing and erecting of about 300,000 pounds of cast iron, 320,000 pounds of steel structures, and 40,000 pounds of machinery. Specifications, forms of proposal, and particulars may be obtained by application to the Chief Engineer, U. S. Reclamation Service, Washington, D. C.; to J. B. Lippincott, supervising engineer, 1108 Union Trust Building, Los Angeles, Cal., or to Homer Hamlin, project engineer, Yuma, Ariz., at whose offices the plans may be inspected. E. A. HITCHCOCK, Secretary. 4-3t

BUREAU OF PORT WORKS, Manila, P. I., December 20, 1905.—Sealed proposals for the construction of two steel wharves in Manila Harbor will be received until 11 o'clock A. M., April 5, 1906, and then publicly opened. Information furnished on application to this office or to the Bureau of Insular Affairs, Washington, D. C. Plans may be seen at the above offices and also at the United States Engineer Offices at Chicago and San Francisco, and at the Offices of the Engineering News and Engineering Record at New York. W. L. FISK, Lieut.-Col., Corps of Engineers, U. S. Army, Director of Port Works, Philippine Islands. 26-9t

OFFICE OF CONSTRUCTING OFFICER FOR U. S. SOLDIERS' HOME, Washington, D. C., January 23, 1906.—Sealed proposals for furnishing and delivering granite for Mess Hall and Dormitory Building at U. S. Soldiers' Home, Washington, D. C., will be received here until noon, February 26, 1906, and then publicly opened. Information on application. Deposit of $10 required on drawings. JOHN STEPHEN SEWELL, Captain, Engineers, Constructing Officer. 4-4t

NOTICE TO MACHINERY MANUFACTURERS AND CONTRACTORS.

The American Rio Grande Land and Irrigation Company solicits proposals to be submitted March 1, 1906, from contractors for the complete installation of high-grade machinery for its initial steam-driven, electric-transmission pumping-plant for irrigation service, near Harlingen, Cameron Co., Texas; also proposals direct from manufacturers and others for the various parts thereof.

The plant will be of about 1,000 HP. capacity.

Specifications may be seen at the following offices:

Engineering News, 220 Broadway, New York, City, N. Y.

Engineering Record, New York City, N. Y.

Mr. T. W. Carter, Pres't., No. 114 No. 4th St., St. Louis, Mo.

Copies of the specifications will be supplied to responsible bidders upon receipt of acceptable bank exchange for fifteen dollars, by the Engineer, which sum will be returned upon the return of the specifications.

A deposit of five per cent. of the amount of each proposal made payable to the St. Louis Union Trust Co., Trustee, St. Louis, Mo., in the shape of a Cashier's check, or other acceptable deposit shall accompany each proposal as a guarantee of good faith.

The right is reserved to reject any or all proposals.

Address all communications to the Engineer.

CHESTER B. DAVIS, M. Am. Soc. C. E.,
Engineer, Harlingen, Texas.
T. W. CARTER, Pres't., No. 114 No. 4th St.,
St. Louis, Mo. 5-2t

PROPOSALS will be received at the Navy Department, Washington, D. C., until 12 o'clock, noon, Wednesday, February 14, 1906, and there publicly opened immediately thereafter, for altering and remodeling present boathouse into a gymnasium at the U. S. Naval Academy, Annapolis, Md. Blank forms of proposal and specifications will be furnished and plans may be seen on application at the U. S. Naval Academy, Annapolis, Md., or at the office of Ernest Flagg, architect, 35 Wall street, New York. A set of drawings may be obtained at the architect's office by depositing $15, of which $10 will be refunded on their return. TRUMAN H. NEWBERRY, Assistant Secretary. Jan. 19, 1906. 4-2t

FORTHCOMING BOOKS

Ready Early in 1906

Concrete Blocks; the Manufacture of, and their Use in Building Construction

Consisting of a revision and enlargement of the papers on this subject submitted to ENGINEERING NEWS last year in a prize competition. The published information on this specific form of the cement and concrete industry being very limited, this book will be welcomed as a valuable contribution. It contains details of the composition and manufacture of blocks; descriptions of machinery used, with patent specifications; and numerous examples of actual work.

Cloth; 6 x 9 inches; fully illustrated; price, $2.00 net.

Modern Tunnel Practice

By DAVID McN. STAUFFER, M. Am. Soc. C. E.

The latest and most comprehensive work on the subject of Tunneling. A complete Table of Contents will be sent on request.

310 pages; 135 illustrations; cloth; 6¼ x 9½ inches; price, $5.00 net.

Reinforced Concrete

By A. W. BUEL and CHAS. S. HILL.

Second edition, entirely rewritten and enlarged.

The second edition of this standard authority on Reinforced Concrete will be ready shortly. It has been entirely rewritten and brought up-to-date, and much new matter has been added.

A complete Table of Contents will be sent on request.

Cloth; 6 x 9 inches; fully illustrated; $5.00 net.

Economics of Road Construction

By H. P. GILLETTE.

Second edition, revised and enlarged.

This popular book has been enlarged by the addition of articles on road construction and maintenance, by Mr. Gillette, that have appeared in the ENGINEERING NEWS.

Flexible cloth; 6 x 9 inches; illustrated; $1.00 net.

ENGINEERING NEWS PUBLISHING COMPANY
(BOOK DEPARTMENT)
220 Broadway, New York City

BRIDGE.

Port Huron, Mich.

Bids for Bascule, also Counterbalance bridge, including plans and specifications for same, will be received at the office of the City Controller, 11 o'clock March 30, 1906. Data and information furnished at this office, or by City Engineer.

R. D. KEEFE,
5-1t Sup't Pub. Wks.

GRANITE WORK.

Wanted proposals for furnishing and setting the granite work on concourse bridge abutment in the borough of the Bronx. Plans and specifications can be seen at 3690 Third Ave., New York.

5-1t UVALDE ASPHALT PAVING CO.

STEAM SHOVEL CONTRACTORS.

Pennsylvania.

Sub-bids are wanted from steam shovel contractors for removing about 100,000 cu. yds. of earth—65,000 to 70,000 yds. side work, in one piece, and about 30,000 yds. of it burrow and short haul.

E. WHALEN, General Contractor,
5-1t Towanda, Pa.

PROPOSALS FOR MISCELLANEOUS SUPPLIES. Office Isthmian Canal Commission, Washington, D. C., January 20, 1906. Sealed proposals, in triplicate, will be received at the office of the General Purchasing Officer, Isthmian Canal Commission, Washington, D. C., until 10.30 A. M., February 19, 1906, at which time they will be opened in public, for furnishing Bar Iron and Steel, G. I. Roofing, Angle Iron, Babbitt Metal, Blank Nuts, Screws, Rivets, Bolts, Iron Pipe and Fittings, Valves, Valve Boxes, Tackle Blocks, Wood Split Pulleys, Leather Belting and Lacing, Copper Wire, Boiler Flues, Wire Netting, Asbestos Cement, Copper Tubing, Tin, Wool Waste, Plate Glass, Doors and Sash, White Pine, Manila Rope, Metallic Packing, Asbestos Packing, Ship Augers, Lime, Cheese Cloth, Flags, Cotton Duck, Barbed Wire, Tacks, Draintile, Foundry Lining Blocks, Brass Molding Sand, Belt Lacing Machine, Foundry Equipment, Machine Tools, Wooden Hand Screws, Whitewashing Machines, Garbage Cans, Pails, Life-Preservers, Grindstones, Door Springs, Stable Brooms, Farming Implements, Timber Hooks, Railroad Crayons, Glass Cutters, Gauges, Lantern Globes, Anvils, Coal Baskets, Scales, Door Knobs, Faucets, Boring Tools, Steel Dies, Numbering Machines, Mimeograph Material, Paper and Paper Bags, Twine, Desks, Filing Cases and Guides, Mosquito Oil, Carbolic Acid, Chloride of Lime, Wood Alcohol, Sulphur, Sulphate of Copper, Putty, Pyrethrum, Horses, Mules, etc. Blanks and full information may be obtained from this office or the offices of the Assistant Purchasing Agents, 24 State Street, New York City; Custom House, New Orleans, La.; also from Chief Quartermaster, Department of the Lakes, Chicago; Depot Quartermaster, St. Louis; Depot Quartermaster, Jeffersonville, Ind.; Chief Quartermaster, Department of the Gulf, Atlanta, Ga.; and the Commercial Club, Mobile, Ala. D. W. ROSS, General Purchasing Officer. 5-2t

DEPARTMENT OF THE INTERIOR, Office of Superintendent U. S. Capitol Building and Grounds, Washington, D. C., January 27, 1906. Proposals (in duplicate) will be received and opened at the above office Wednesday, February 28, 1906, at 1 o'clock P. M., for cast-iron soil and drain pipe and fittings therefor, to be used in connection with the plumbing work for the Office Building, United States Senate. Plans and specifications are ready for issue and will be sent to competent intending bidders upon application. The right is reserved to accept or reject any or all proposals, or sections of proposals as set forth on proposal forms, and to waive any informalities or technicalities. Elliott Woods, Superintendent U. S. Capitol Building and Grounds; Approved: E. A. HITCHCOCK, Secretary. 5-4t

DEPARTMENT OF THE INTERIOR, Office of the Superintendent U. S. Capitol Building and Grounds, Washington, D. C., January 20, 1906. Sealed proposals (in duplicate) will be received and opened at the above office at 2 o'clock p. m., Wednesday, February 28, 1906, for steel framing incident to the construction of the Office Buildings for the House of Representatives and the United States Senate, and for the fireproof floor construction for the several floors of the Office Building, House of Representatives. Plans for specifications can be had on application to the above office. A certified check in the sum of $25 will be required from the intending bidder as a guaranty for the return of plans and specifications. The specifications will state the amount of certified check or approved surety bond in lieu thereof, which must accompany each bid. The right is reserved to reject any or all bids, or alternates, or to waive any informality or technicality in any bid. Elliott Woods, Superintendent U. S. Capitol Building and Grounds. Approved: E. A. HITCHCOCK, Secretary. 5-4t

SITUATIONS OPEN

WANTED. — Assistant superintendent for large manufacturing works located in the East, engaged in the manufacture of high grade, light, interchangeable work. Must be a good mechanic with broad experience in handling men and capable of directing fixture and small tool design. Address "I. B. 5," Engineering News, New York. 5-1t

CONSTRUCTION
Plans and Spe
List of Contra
Railways
Electric Railw
Light and Pow
Bridges
Buildings
Water Supply
Sewerage
Garbage Disp
Streets and R
Manufacturing
Miscellaneous
Contract Pric
Mexico
READERS' WA
CIVIL SERVICE
INDUSTRIAL N
TRADE PUBLI
PROPOSALS

CO

PLANS AN

The following
ding Sheets (H.
ginee ing News
York:

Bids close. We

Feb.
*8—Gas plant
*8—Steel lock
10—Fire alarm
10—Steel caiss
10—Pier..Por
10—Reservoir
*14—Bridges..
*16—Sewers..M
16—Water sy
19—Snag boa
*19—Water &
*19—Viaduct.
*19—Purificati
boine,
24—Sewer sy
24—Water sy
*28—Sluice g

Mar.
*1—Pumping
3—Blasting
*5—Bridge..
*7—Sewer sy
*5—Elevator
*10—Two sni
*15—Canal..
— —Steel,

Apr.
*2—Port w
5—Wharve

*Work adv

NOTE—We
bidding shee
work for fil
contractors
If more sets
distribute th
the work in
the plans a
tisement wi

LIST

Bids close.

LI

Feb. 8.Ga
Ad
Feb. 12.L
Feb. 14.L
Feb. 14.E
Feb. 14.G
Feb. 15.A
Feb. 17.W
Feb. 20.L
Ad
Feb. 23.C
Feb. 24.F

Feb. 26.C
Mar. 5.F

Apr. 4.

No date.

Feb. 12.
Feb. 13.
Feb. 13

Feb. 14